ORDER NO. VSD9812M224A

Service Manual

Panasonic Mini DY D

Digital Cassette Vid

Digital Cassette Video Recorder

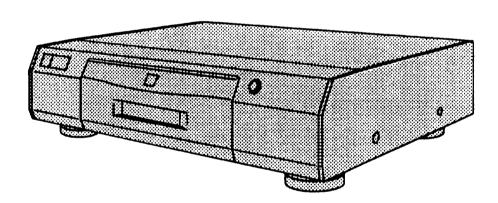
AG-DV2000P

Volume. 1

Sec. 1 Operating Instructions

Sec. 2 Disassembly Procedures & Mechanical Adjustment Procedures

Sec.3 Block Diagrams,
Schematic Diagrams &
Circuit Board Diagrams



Please refer to the Service Manual Model AG-DV2000P Volume 2 (Order No. VSD9812M224B) for Service Information, Electrical Adjustment Procedures and Exploded Views / Parts List.

Weight and dimensions shown are approximate. Specifications are subject to change without notice

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△ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AG-DV2000P

Power Source:

120 V AC 60 Hz

Power Consumption:

27 watts

Power Consumption When in Standby Mode:

Approx. 7 watts

Video Recording System:

Audio Recording System:

2 rotary heads, Digital Component PCM Digital Recording; 16 bit (48 kHz/2ch), 12 bit (32 kHz/4ch)

2 heads

Video Heads: Tape Speed:

SP; 18.812 mm/sec.

Tape Format:

LP; 12.555 mm/sec.

Record/Playback Time:

DV/ Mini DV tape

SP; 120 min. LP; 180 min. with DV120

SP; 60 min. LP; 90 min. with DVM60

FF/REW Time:

approx. 70 sec. with DV120

approx. 50 sec. with DVM60

VIDEO

Television System:

EIA; Standard (525 lines, 60 fields) NTSC color signal

Modulation System:

Digital Compornent recording VIDEO IN;

1.0 Vp-p,

75 ohm, terminated 75 ohm, terminated

Input Level:

S-VIDEO IN;

1.0 Vp-p,

Output Level:

VIDEO OUT S-VIDEO OUT 1.0 Vp-p, 1.0 Vp-p,

75 ohm, terminated 75 ohm, terminated

AUDIO

Input Level:

AUDIO IN

309 mV,

more than 47 kohm

MIC(M3):

0.33 mV.

600 ohm

Output Level:

AUDIO OUT HEAD PHONES:

309 mV, 1-30 mV.

less than 1 kohm 8 ohm

Audio Track:

16 bit (48 kHz/2ch);

1 track, 2 channels

2 tracks, 4 channels

12 bit (32 kHz/4ch);

Digital Interface:

DV Terminal (i.LINK, 4-pin)

Video Horizontal Resolution:

Color: more than 500 lines 20 Hz-20 kHz (16 bit)

Audio Frequency Response:

20 Hz-14.5 kHz (12 bit)

Operating Temperature:

5°C-40°C

Operating Humidity:

35%-80%

Weight:

14.6 lbs. (6.8 kg)

Dimensions:

 $17^{9}/_{16}"(W)\times4^{7}/_{8}"(H)\times13^{7}/_{8}"(D)$ [445 (W)×123 (H)×351.5 (D) mm]

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

INTRODUCTION

This Service Manual Vol. 1 contains technical information such as Operating Instructions, Disassembly procedures, Maintenance & Mechanical Adjustment Procedures and Block Diagrams / Schematic Diagrams / C.B.A. Layout and which service personnel to understand and service the Panasonic Digital Video Cassette Recorder model AG-DV2000P. For other technical information such as Service Information, Electrical Adjustment Procedures and Exploded Views / Parts Lists, please refer to the Service Manual AG-DV2000P Vol. 2. (Order No. VSD9812M224B).

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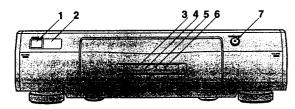


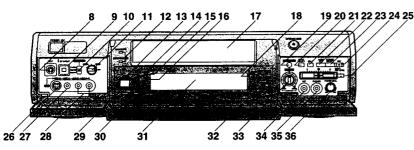
SECTION 1

OPERATING INSTRUCTIONS

Control and Connection Sockets

This section gives a detailed explanation of the function of each button, switch and connection socket.





FRONT

1 POWER O/I

Press to switch the VCR from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

2 Infra-red Remote Control Receiver Window

3 STANDBY Indicator

This indicator is lit when main lead is connected and the power is off.

4 POWER Indicator

This indicator is lit when the power is on.

5 REC Indicator

This indicator is lit when recording is in progress.

6 CASSETTE IN Indicator

This indicator is lit when a cassette is inserted.

7 OPEN/CLOSE

Press to open the front panel or to open/close the cassette tray.

8 EDIT

By connecting a movie camera or VCR with an EDIT socket to this socket via an Edit cable, various kinds of editing functions can be performed more quickly and efficiently between two VCRs or between a VCR and a movie camera.

9 DV IN/OUT ()

To connect the DV cable to digital video equipment with IEEE 1394-1995 compatible DV terminal. "i.LINK" is the name of the connector in accordance with the International Standard IEEE1394-1995.

"is the logo marked on products conforming with the

"i.LINK" specifications. For further details on the DV terminal, refer to the Glossary of Terms on page 66.

10 EDIT MODE

When this VCR is used as the playback PLAYER: VCR during editing operations.

RECORDER: When this VCR is used as the recording

VCR during editing operations. Normally set at this position.

When operating this VCR using another PASSIVE:

VCR or an editing controller.

• The picture quality best suited for editing is selected.

11 EDIT CONTROL

To select a connected component when another component is to be connected for editing, etc.

12 DV CASSETTE/MINI CASSETTE Indicators

This indicator corresponds to the size of the cassette inserted is lit.

13 JOG/SHUTTLE Indicator

While this display is lit, the unit is set to the Jog/Shuttle

- · Check that the display is lit before proceeding with a iog or shuttle operation.
- The display is automatically turned off if no operation is performed.

14 VIDEO INSERT Indicator

This indicator is lit when the video insert editing is performed.

15 AUDIO DUB Indicator

This indicator is lit when the Audio Dubbing or Audio Mixing is performed.

16 AUDIO INSERT Indicator

This indicator is lit when the audio insert editing is performed.

17 Cassette Tray

18 Indicators for AUDIO MONITOR

The audio track selected by STEREO SELECT lights. (This applies only to a tape recorded in the 12bit audio mode.)

19 MIXING EDIT

For Mixing Editing

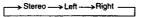
20 INPUT SELECT

To select the A1, A2 or DV IN external recording source.

To select the desired tape speed for recording.

22 AUDIO OUT

To select the desired sound mode. When this button is pressed, the audio output mode changes as follows.



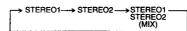
The Left(L) and Right(R) Indicators shown which sound mode is selected in the following way.

Stereo: Both the L and R Indicators appear.

The L Indicator appears. The R Indicator appears. Right:

23 STEREO SELECT

To select the audio track (STEREO1 audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:



- . The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode.
- When INPUT SELECT is set to DV IN and a 12bit audio mode input signal is being received, the audio track can be selected by STEREO SELECT at any

24 REC

To start recording.

25 AUDIO REC LEVEL

To adjust the audio recording level to peak at +4 dB on the recording level indicator.

. When INPUT SELECT is set to DV IN the audio recording level cannot be adjusted.

26 S-VIDEO IN (AV2)

To connect the S-Video cable to a movie camera or to another VCR that has an S-Video output socket.

. If an S-Video cable is connected, other video input (AV2) is automatically switched off.

27 VIDEO IN (AV2)

To connect the video cable to a movie camera or to another VCR.

28 AUDIO IN (AV2)

To connect the audio cable to a movie camera or to another VCR

29 EDITING CONTROLLER Socket

When using the editing controller separate from the main unit, remove the modular cap and then connect the editing controller cable.

30 DV IN/OUT Indicators

DV IN: This indicator is lit when INPUT SELECT is

set to "DV IN".

DV OUT: This indicator is lit when a playback operation is performed using this VCR or when INPUT

SELECT is set to other than "DV IN".

31 Display

16bit:

32 Indicators for AUDIO DATA

Displays the audio data that is to be recorded, or the audio data on a tape that has already been recorded. The audio recording mode can be set in the SET UP

12bit-STEREO1: To play back a tape that is recorded in 12bit audio mode.

12bit-STEREO2: To play back a STEREO2 audio tape

recorded in the 12bit audio mode. To play back a tape that is recorded in

16bit audio mode.

Infra-red Remote Controller

33 AUDIO MIX Level

During the Audio Mixing function:

To adjust the volume of the original audio (STEREO1).

During playback of a tape recorded in the 12bit audio mode:

To adjust the mix balance between the STEREO1 and STEREO2 audio.

34 MIC

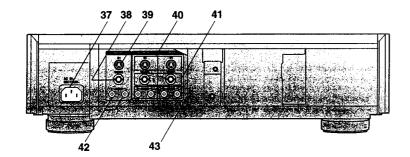
To connect to a microphone for recording. Once connected, this socket has priority.

35 PHONES

To connect stereo headphones.

36 PHONES LEVEL

For adjusting the volume level of connected stereo headphones.



REAR

37 AC IN~

To connect to the main power supply.

38 VIDEO IN (INPUT1)

To connect the video cable (BNC) to a movie camera or to another VCR.

39 S-VIDEO IN (INPUT1)

To connect the S-Video cable to a movie camera or to another VCR that has an S-Video output socket.

. If an S-Video cable is connected, other video input (INPUT1) is automatically switched off.

40 S-VIDEO OUT (OUTPUT1/2)

To connect the S-Video cable to a monitor or another VCR that has an S-Video input socket.

41 VIDEO OUT (OUTPUT1/2)

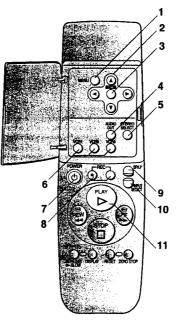
To connect the video cable (BNC) to a monitor or to another VCR.

42 AUDIO IN (INPUT1)

To connect the audio cable to a movie camera or to another VCR.

43 AUDIO OUT (OUTPUT1/2)

To connect the audio cable to a stereo audio system.



1 MENU

To make the On Screen Display Main menu appear on the monitor screen.

2 ▲ ▼ ◀ ▶

To make selections from the On Screen Display.

To confirm the selection, or to store.

4 AUDIO OUT

To select the desired sound mode. When this button is pressed, the audio output mode changes as follows.

> Stereo ---> Left ----> Right

The Left(L) and Right(R) Indicators shown which sound mode is selected in the following way.

Stereo: Both the L and R Indicators appear.

The L Indicator appears. Right: The R Indicator appears.

5 STEREO SELECT

To select the audio track (STEREO1 audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:

→ STEREO1 → STEREO2 → STEREO1

· The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode.

. When INPUT SELECT is set to DV IN and a 12bit audio mode input signal is being received, the audio track can be selected by STEREO SELECT at any time.

6 VCR1/2/3

While holding down POWER O, press one of these buttons to select the remote control mode.

Set this position on both the VCR and

remote controller for normal use with one

VCR2: Set this position when using two

Panasonic VCRs.

VCR3: Set this position when using three

Panasonic VCRs.

· When the VCR's remote control mode has been switched, select the same remote control mode on the editing controller as well.

7 POWER 也

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

8 REC

To start recording.

Press both buttons at the same time.

To select the desired tape speed for recording.

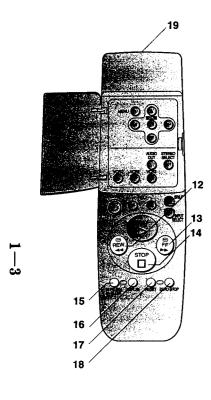
10 INPUT SELECT

To select the A1, A2 or DV IN external recording source.

11 ▷ (PLAY)

To start playback. ">" is lit during playback.

Editing Controller



12 **◄**◀ (REW)

To rewind the tape. In the stop mode:

In the playback mode: To search backward for a scene

To view the video. In the rewind mode:

"<><" is lit during rewind.

13 ▶▶ (FF)

In the stop mode: In the playback mode:

To fast forward the tape. To search forward for a scene.

In the fast forward mode: To view the video.

"DD" is lit during fast forward.

14 □ (STOP)

To stop playback or recording.

15 PAUSE/SLOW (III/I»)

During playback:

• When pressed once: Still picture. "DD" is lit.

· When pressed for 2 seconds or more:

Slow playback. "Ū⊳" is lit.

During recording: To pause recording.

To change the VCR display indication as follows:

--> Clock ---> Time ----> Remaining --> Counter --Tape Time Code

• The time code frame values are not displayed on the main unit's VCR display.

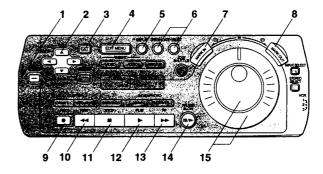
To reset the tape counter (elapsed time) to "0:00.00".

- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.
- . It is not possible to reset the Time code to "0h00m00s00f" using RESET.

18 ZERO STOP

For the zero stop function.

19 Infra-red Transmitter



1 SET UP

To make the SET UP screen appear on the monitor screen. When the SET UP screen is displayed, use this button to return to the previous screen.

2 ▲ ▼ ◀ ► (CURSOR)

To make selections from the SET UP or EDIT MENU screen. (When the SET UP or EDIT MENU screen is displayed.)

3 EXIT

To exit the SET UP or EDIT MENU screen.

To make the EDIT MENU screen appear on the monitor screen, and to return to the previous screen. This button is also used to stop editing functions using the EDIT MENU screen.

5 DISPLAY

To change the VCR display indication as follows:

→Clock → Time → Remaining → Counter-Tape Time Code

• The time code frame values are not displayed on the main unit's VCR display.

6 DATE-OFF/ON, DATE-SELECT

When pictures are recorded using this VCR or a Panasonic Digital Video Camera, the date and time of the recording are automatically recorded onto the tape's sub code track.

This button is used to select the information to be displayed on the On Screen Display.

DATE-OFF/ON:

To make the Date/Time indication appear on the monitor screen.

DATE-SELECT:

To change the indication to be displayed on the monitor screen as follows:

> →Date ---> Time Time

7 MARK IN

To set edit start points for Program Editing.

8 MARK OUT

To set edit end points for Program Editing.

9 REC

To start recording.

10 **◄◄** (REW)

In the stop mode: To rewind the tape.

In the playback mode: To search backward for a scene. In the rewind mode:

To view the video.

"<>" is lit during rewind.

11 **■** (STOP)

To stop playback or recording.

12 ► (PLAY)

To start playback. ">" is lit during playback.

13 ▶▶ (FF)

In the stop mode: To fast forward the tape. In the playback mode: To search forward for a scene. In the fast forward mode: To view the video.

"⊳⊳" is lit during fast forward.

14 PAUSE/SLOW (III/II-)

During playback:

. When pressed once: Still picture. "III" is lit.

. When pressed for 2 seconds or more:

Slow playback. "□>" is lit. During recording: To pause recording.

15 Jog Dial/Shuttle Ring

Jog Dial (inner dial):

Operate after pressing JOG/SHUTTLE to switch to the Joa/shuttle mode.

To locate any desired field with utmost precision.

Shuttle Ring (outer ring):

Operate after pressing JOG/SHUTTLE to switch to the Jog/shuttle mode.

To adjust playback speed backward or forward.

16 Infra-red Transmitter

17 OK

To start Manual editing and to store the selection on the SET UP or EDIT MENU screen.

18 VIDEO INSERT

For the Video Insert function and the AV Insert function.

19 AUDIO INSERT

For the Audio Insert function and the AV Insert function.

20 AUDIO DUB

For the Audio Dubbing function or the Audio Mixing function.

21 JOG/SHUTTLE

To switch to the Jog/Shuttle mode. When the button is pressed, it lights and the VCR enters the Jog/Shuttle mode.

In the stop mode: Still picture (Jog/Shuttle mode).

During playback: Still picture (Jog/Shuttle mode).

22 INPUT SELECT

To select the A1, A2 or DV IN external recording source.

23 RESET

To reset the tape counter (elapsed time) to "0:00.00".

- The tape counter is automatically reset to "0:00.00".
 when a video cassette is inserted.
- It is not possible to reset the Time code to "0h00m00s00f" using RESET.

24 ZERO STOP

For the zero stop function.

25 PLAYER

To operate the playback unit.

26 SEARCH SELECT

To search for a recorded program using the index/ photoshot index search.

27 RECORDER

To operate the recording VCR.

28 INDEX/PHOTO

For the index/photoshot index search function.

29 STEREO SELECT

To select the audio track (STEREO1audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:

- The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode.
- When INPUT SELECT is set to DV IN, the audio track can be selected by STEREO SELECT at any time: it does not have to be during playback.

30 VCR1/2/3

To select the remote control mode. The selected mode appears on the remote controller display.

VCR1: Set this position on both the VCR and

remote controller for normal use with one

VCR.

VCR2: Set this position when using two

Panasonic VCRs.

VCR3: Set this position when using three

Panasonic VCRs.

Note:

10

While in the editing mode the VCR's Time code or tape counter display cannot be changed.

Remote Controller Setup

Installing the Batteries

1 To remove the cover, slide it in the direction of the arrow while pressing down.



2 Load the batteries with their polarity (⊕ and ⊖) aligned correctly.



3 Slide the cover back on.

Power Source for the Remote Controller

The remote controller is powered by 2 AA, UM3 or R6 size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

Precautions for Battery Replacement

- Load the new batteries with their polarity (
 and
 aligned correctly.
- Do not apply heat to the batteries, or an internal shortcircuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool, dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.
- · Do not use rechargeable batteries.

Editing Controller Set Up

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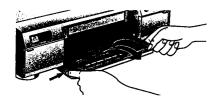
Operating the Editing Controller

The Editing controller can be operated in any of the following 3 ways:

- It can be operated while remaining attached to the main unit
- Its batteries can be loaded, and it can be separated from the main unit and operated as the remote controller.
- It can be separated from the main unit, connected using the accessory editing controller cable and operated as the remote controller.

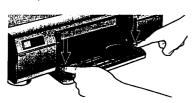
How to separate the editing controller

While pressing the buttons at the left and right of the main unit's front panel, remove the editing controller with both hands.



How to attach the editing controller

Push down on the editing controller until the areas around the left and right buttons on the unit's front panel click into position.



When connecting the editing controller to the video unit using the editing controller cable

 Remove the cover over the controller socket on the rear panel of the editing controller, and insert the plug at one end of the editing controller cable into this socket until it clicks into position.



2 Remove the modular cap over the unit's controller socket, and insert the plug at the other end of the editing controller cable into this socket until it clicks into position.



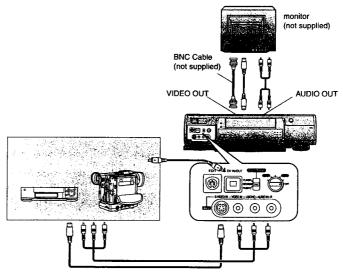
When using the editing controller as a remote controller

As a remote controller, the editing controller can be operated at a distance up to about 3 m in front and up to an angle of up to about 30 degrees to the left or right of centre. (This range changes in accordance with the ambient brightness.)

Note:

When the VCR's remote control mode has been switched, switch the remote control mode on the editing controller as well.





- Use AV cables to connect the input sockets on this unit with the output sockets on the video equipment.
- . Press INPUT SELECT on this unit so that A1, A2 or DV IN is selected.
- When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).
- If the video equipment is connected to this unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority.
 If the video equipment does not have an S-VIDEO socket do not connect the S-VIDEO cable to this unit.

Inserting the Cassette

1 Press OPEN/CLOSE.

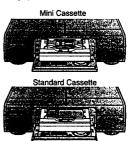
The front panel opens.



- 2 Press OPEN/CLOSE again.
 - · The cassette tray is extended.

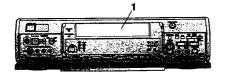


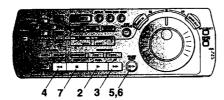
3 Align the cassette with the cassette guide and place it on the tray while ensuring that the side of the cassette with the tape exposed is facing up and the label side is turned toward you.



- 4 Press OPEN/CLOSE.
 - · The cassette tray is retracted inside the video unit.

Playback





1 2 2 3 4 5,6 7

Operations Display Symbols

Insert a recorded cassette tape (page 13).



Press ▷ (PLAY) to start playback.

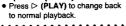


Tap ►► (FF) to search forward.
• Press ▷ (PLAY) to change back

to normal playback.



Tap ◄◄ (REW) to search backward.





Press PAUSE/SLOW to view a still picture.

Press ▷ (PLAY) or PAUSE/SLOW to continue normal playback.



Keep PAUSE/SLOW pressed for 2 seconds or more to view a slow motion picture.

 Press ▷ (PLAY) to continue normal playback.

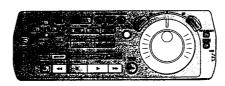


Press (STOP) to stop the picture.

Note:

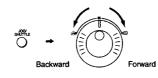
If you keep ▶► (FF) or ◄◄ (REW) pressed in step 3 or 4, search playback is activated while the button is pressed, and operation returns to normal playback when the button is released.

Other Playback Functions



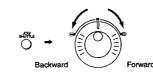
To Change the Playback Speed

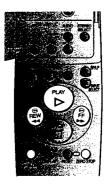
- 1 Press JOG/SHUTTLE on the editing controller.
 - The button on the editing controller is lit.
- 2 Rotate Shuttle Ring.



To Locate the Desired Picture Exactly

- 1 Press JOG/SHUTTLE on the editing controller.
- The button on the editing controller is lit.
- 2 Turn Jog dial.





To View the Video During Fast Forward or Rewind

Keep►► (FF) pressed during fast forward. Keep◄◄(REW) pressed during rewind.





To Return to a Specified Scene

After playback, press ZERO STOP in the stop mode.

- The tape will be rewound or fast forwarded to 0:00.00 approximately.
- . During Time code display, this function will not work.

Automatic Playback

When a cassette with the opened record prevention tab is inserted, the VCR starts playback automatically.

VCR-off Playback

When the VCR is off, an inserted cassette can be played back by pressing ▷(PLAY).

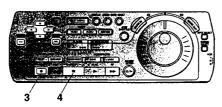
Automatic Rewinding

When the tape reaches the end during recording or playback, it will automatically be rewound to the beginning.

Note:

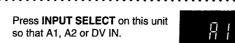
Cue, review or slow playback will be automatically canceled after 10 minutes, and still playback after 5 minutes.

O



Operations Display Symbols

- Insert a video cassette with the closed record prevention tab (page 13).
 - If it has already been inserted, press POWER ひ (POWER ひ/I) to turn the VCR on.



3 Press REC to start recording.



4 Press □ (STOP) to stop recording.

To Select the Desired Tape Speed Press SP/LP before recording.



To Pause Recording

Press PAUSE/SLOW during recording.
Press again to continue recording.



To Select the Desired Audio Mode

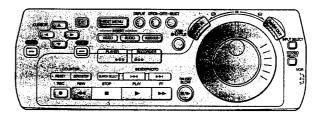
Perform the procedure below using the editing controller.

- 1 Press SET UP.
- 2 Using ▲ ▼, select Audio Mode and press OK.
- 3 Using ◀▶, select 12bit or 16bit, then press OK.
 For details, see Initial Settings for Editing on page 30.

Note:

A long-Mini DV cassette (SP/80 min., LP/120 min.) that was recorded by this VCR cannot be played back or recorded by a DVCPRO or DVCPRO 50 format VCR.

Search Functions



Index Search System

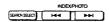
It is easy to find the beginning of each recording because a special index signal is recorded at the start of each recorded segment on the tape.

For example:

Searching for the 2nd recorded segment in the forward direction.

1 Press SEARCH SELECT so that "S - -" appears on the VCR display.

(This operation is performed while the VCR is in the stop mode or normal playback mode.)



- 2 Press INDEX/PHOTO ►►I twice.After finding the specific
 - recorded segment, playback starts automatically.

Display Symbols



To stop the operation at any time Press **(STOP)**.

- For the reverse direction, press iNDEX/PHOTO I◄◄.
- Up to 20 index signals can be searched for in either direction.
- When the opposite INDEX/PHOTO is pressed, the number shall be decreased until 1 is reached.
- The figure on the display is reduced by 1 each time an index signal is located.
- The INDEX search function can only work correctly if the index signals are spaced at least 5 minutes apart.
- Repeat the procedure if the index signal for the specified number is not found.

Recording Index Signals

Index signals are recorded in the following cases.

- When a recording is started by pressing REC.
- When REC on the remote controller or the editing controller is pressed during recording.

Photoshot Index Search System

Photo shot index signals are automatically recorded when a Panasonic Digital Video Camera is used for Photo shot Mode. Photo shot images are searched using these signals, and when such an image is located, the image is played back as a still picture.

For example:

Searching for the 2nd photo shot image in the forward direction.

1 Press SEARCH SELECT so that "PHOTO S --" appears on the VCR display.



- 2 Press INDEX/PHOTO ▶► twice.
- After finding the specific image, playback starts automatically.

Display Symbols



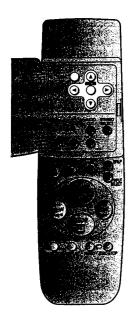
To stop the operation at any time Press (STOP).

- For the reverse direction, press INDEX/PHOTO I◄
- Any of up to 20 images ahead on the tape can be designated.
- When the opposite INDEX/PHOTO is pressed, the number shall be decreased until 1 is reached.
- It may not be possible to search for a particular image properly if photo shot images have been recorded continuously.
- At every press of the corresponding button, the tape is fast-forwarded or rewound to the next still picture recorded in the Photoshot Mode.

After reaching the next still picture, the still picture is played back continually together with the sound (only for approx. 4 seconds).

Preparations

- · Confirm that the monitor is on and the VCR viewing channel is selected.
- . Turn on the VCR and monitor.



Operations

Press MENU, and then select CLOCK ADJUST.

On Screen Display

Set Time and Date.



Press OK to confirm.



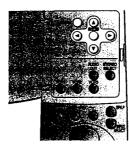
Press MENU to exit the On Screen Display.

Settings Using On Screen Display

The VCR indications shown on the monitor screen are known as the On Screen Display (OSD). This VCR allows many settings to be made at the OSD.

Preparations

- . Confirm that the monitor is on and the VCR viewing channel is selected.
- Turn on the VCR and monitor.



OSD Mode

1 Press MENU, and then select OPTION SETUP1.



2 Select OSD MODE.

AUTO:





3 Select AUTO, ON or OFF.



The On Screen Display will appear on the monitor screen for a few seconds when

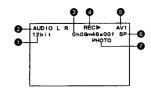
you operate the VCR. ON:

The On Screen Display will always appear on the monitor screen when you perform the VCR.

The On Screen Display will not appear.

4 Press MENU twice to exit the On Screen Display.

To use the On Screen Display:



- Audio Data Indicator
- Audio Output Mode Indicator The Left (L) and Right (R) Indicators show which sound mode is selected with AUDIO OUT

(see page 5 or 7). Stereo: Both the AUDIO L and R Indicators

appear.

The AUDIO L Indicator appears. The AUDIO R Indicator appears.

Present time/Time code/Remaining tape time/ Tape counter/Index/Photoshot Index Search

JUN 11 19:22
0h09m46s00f
REMAIN 1:16
-1:35.47
S 02

Tape running display

•		
	Stop	
	Playback/Reverse Playback	PLAY►/PLAY◀
_	Still Playback	STILL
	Fast Forward/Rewind	FF▶►/REW◀◀
	Cue/Review	CUE►►/REV◄◀
_	Slow/Reverse Slow Playback	SLOW
	Recording/Recording Pause	REC►/RECII
_	Video Insert/Insert Pause	VID INS►/VID INSI I
	Audio Insert/Insert Pause	AUD INS►/AUD INSI
	AV Insert/Insert Pause	A/V INS►/ A/V INSI
	Audio Dubbing/Dubbing Pause	A.DUB►/A.DUBII
-		

- External Input Indicator
- Tape speed Indicator
- Index/Photoshot Index Search Indicator

- . When the item "OSD MODE" is set to OFF, the On Screen Display will not appear.
- . When "COLOR MODE" is set to OFF, the On Screen Display will not appear.
- . On Screen Display is not displayed when the SET UP or EDIT MENU screen is displayed.

Power Save Mode

1 Press MENU, and then select OPTION SETUP1.



2 Select POWER SAVE MODE.



3 Select OFF, 2H or 6H.

9



- OFF: This setting does not conserve power when the VCR is off.
- The VCR turns off automatically if no operation is performed for approximately two hours.
- The VCR turns off automatically if no operation is performed for approximately six hours.
- 4 Press MENU twice to exit the On Screen Display.

Wide Mode

1 Press MENU, and then select OPTION SETUP1.







3 Select OFF or S1.





- OFF: When the S-Video input socket on the monitor that is connected is an S-Video socket.
- When the S-Video input socket on the monitor that is connected is an S1-Video socket. (If a wide mode video signal is sent to the monitor, the monitor screen size will automatically switch to wide mode.)
- 4 Press MENU twice to exit the On Screen Display.

To Set the Remote mode

1 Press MENU, and then select OPTION SETUP1.



2 Select REMOTE MODE.





3 Select VCR1, VCR2 or VCR3.

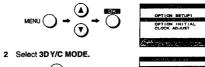


This allows the remote controller to be set for operating VCR1, VCR2 or VCR3.

- . When changing the remote control mode, press VCR1,VCR2 or VCR3 while holding down POWERO to change the remote control mode of the remote controller. If this is not done, it will not be possible to operate the VCR using the remote controller.
- 4 Press MENU twice to exit the On Screen Display.

3DY/C Mode

1 Press MENU, and then select OPTION SETUP2.





3 Select OFF or ON.





OFF: To reduce ghosting that occurs when playing back or recording a fast-moving video.

ON: To record with high quality.

4 Press MENU twice to exit the On Screen Display.

3D NR Mode

1 Press MENU, and then select OPTION SETUP2.



2 Select 3D NR MODE.



Tar Programme & CHESTON

3 Select OFF, LEVEL1 or LEVEL2.



OFF:

To use this VCR as the playback unit

durina editina.

LEVEL1: To get better picture quality during

playback.

LEVEL2: When there is a lot of picture noise on the

screen.

4 Press MENU twice to exit the On Screen Display.

To Set the Color Mode

1 Press MENU, and then select OPTION SETUP2.



2 Select COLOR MODE.



all interfeit, calculated

3 Select OFF or ON.





OFF: When performing recording and playback in black-and-white.

ON: When performing recording and playback in color.

4 Press MENU twice to exit the On Screen Display.

Initial Setting

If you want to return the VCR to the factory-preset condition, follow the procedure below.

1 Press MENU, and then select OPTION INITIAL.



- •The message "INITIAL COMPLETED." appears at the bottom of the screen.
- 2 Press MENU to exit the On Screen Display.

Using this VCR, 4 types of **One-Touch-Edit**, 3 types of **Manual Editing** and 3 types of **Program Editing** can be selected.

In Program Editing, after setting the edit start/end point, editing can be performed automatically. Edit programs can be set up to 10 scenes for each editing function (40 scenes for Assemble editing).

One-Touch-Edit

- Assemble Editing (page 36)
- Insert Editing (Video, Audio, AV) (page 38)
- Audio Dubbing (page 38)
- Audio Mixing (page 40)

Manual Editing

- Copying (page 42)
- Insert Editing (Video, Audio, AV) (page 44)
- Audio Dubbing (page 46)

Program Editing

- Assemble Editing (page 48)
- Insert Editing (Video, Audio, AV) (page 52)
- Audio Dubbing (page 56)

Copying

Allows the re-recording (copying) of the picture and sound from one tape onto another tape.



Recording Unit

Performing the Copying operation on a tape that was recorded in 12bit audio mode.

Video Insert

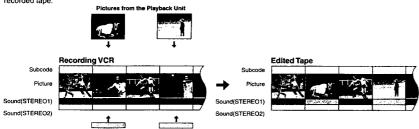
Allows the partial replacement of the picture on a recorded tape. Sound is left in its original state.

Audio Insert

Allows the partial replacement of sound on a recorded tape. Picture is left in its original state.

AV Insert

Allows the partial replacement of the picture and sound on a recorded tape.



Performing the AV Insert editing operation on a tape that was recorded in 12bit audio mode.

Audio Dubbing

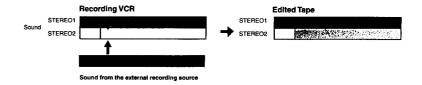
Allows the addition of the new sound on the STEREO2 track of a recorded tape. The original sound is left on the STEREO1 track.



Performing the Audio Dubbing operation on a tape that was recorded in 12bit audio mode.

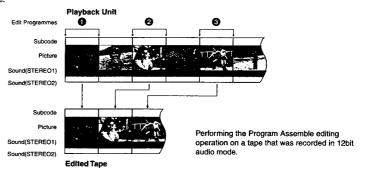
Audio Mixing

Allows the mixing of the the original sound on the STEREO1 track with the new sound from the external recording source and recording the mixed sound on the STEREO2 track of a recorded tape. The original sound is left on the STEREO1 track.



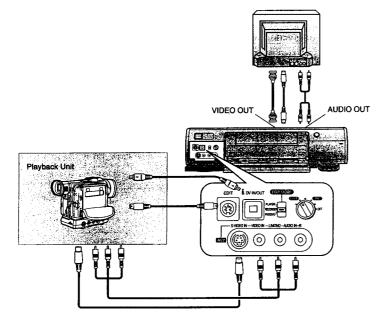
Assemble Editing

Allows the required scenes (picture and sound) to be picked up from a recorded tape and recorded in any desired order onto another tape.



Connecting with a Digital Video Camera

Example for connecting Panasonic Digital Video Camera as the playback unit, when controlling the playback unit through this



Notes:

- · Before connecting any cables, first make sure that the power for both units is off.
- . Insert a recorded cassette into the playback unit, and a cassette with the closed record prevention tab into the VCR.
- If the playback unit is connected to the recording unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority. If the playback unit does not have an S-VIDEO socket do not connect the S-VIDEO cable to this
- Use of an AC adaptor as the power source for the Digital Video Camera is recommended. Doing so avoids a situation where the camera shuts down due to low battery
- . It is recommended that the DV cable be disconnected for editing with INPUT SELECT set to A1 and A2. If INPUT SELECT is set to A1 and A2 with the connections shown in the figure left unchanged, the monitor picture may be disturbed or noise may occur. (This has no effect on the actual editing operations.)
- When the units are connected using the DV cable and editing is performed, some editing functions will differ compared with when the units are connected using the AV cable. Refer to Glossary of Terms on page 66.

- · Read the operating instructions of the Digital Video Camera.
- Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.
- When using a Panasonic Digital Video Camera as the playback unit, the following editing functions can be used by connecting the camera to this unit with a DV cable: Copying

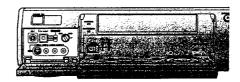
Video Insert

Audio Insert

Assemble

In this case, simply set INPUT SELECT to DV IN, and set EDIT CONTROL to DV.

- (This function may not operate properly with some models.) · Use Time codes for Program Editing when the playback unit
- is connected to this unit via a DV cable.
- When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).

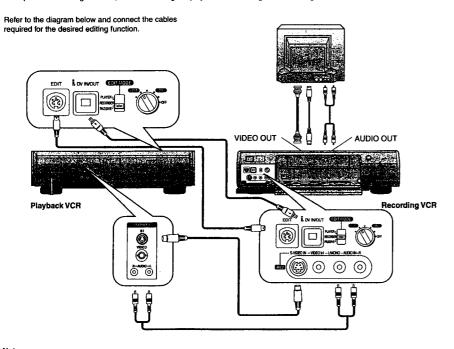




Playback Unit Recording (Digital Video Camera) (this unit)		cording Unit is unit)	
1	Turn the power on.	1	Turn the power on.
2	Make the Time code appear on the LCD monitor or the viewfinder.	2	Set EDIT MODE to RECORDER. PLATER RECORDER RECORDE
3	Prepare the tape for playback.	3	Set EDIT CONTROL to EDIT.
		4	Press INPUT SELECT so that DV IN is selected. • When performing Audio Dubbing or AV Insert, select A1 or A2.

Connecting Two Digital Video Cassette Recorders (Using two AG-DV2000)

Example for connecting this unit, when controlling the playback VCR through the recording VCR.



Notes:

- Before connecting any cables, first make sure that the power for both VCRs is off.
- Insert a recorded cassette into the playback VCR, and a cassette with the closed record prevention tab into the VCR.
- When the units are connected using the DV cable and editing is performed, some editing functions will differ compared with when the units are connected using the AV cable. Refer to Glossary of Terms on page 66.
- Use Time codes for program editing when the playback VCR is connected to this unit via only a DV cable.
- It is recommended that the DV cable be disconnected for editing with INPUT SELECT set to A1 and A2. If INPUT SELECT is set to A1 and A2 with the connections shown in the figure left unchanged, the monitor picture may be disturbed or noise may occur. (This has no effect on the actual editing operations.)
- Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.

- When the connections and setting are made as shown above, then :
- The ▷(PLAY), ▶▶(FF), REC and the other such buttons on the playback VCR or the remote controller cannot be used to control the playback VCR directly. In order to permit direct control, set EDIT CONTROL on the playback VCR to OFF.
- The following editing functions can be used by connecting the playback VCR with a DV cable:

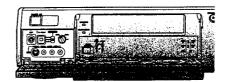
Copying Video Insert

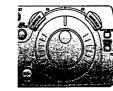
Audio Insert

Assemble

In this case, simply set INPUT SELECT to DV IN, and set EDIT CONTROL to DV.

 When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).





Playback VCR

1 Turn the power on.

2 Set EDIT MODE to PASSIVE.



3 Set EDIT CONTROL to EDIT.



Recording VCR

1 Turn the power on.

Set the EDIT MODE to RECORDER.



Set EDIT CONTROL to



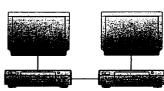
Press INPUT SELECT so that DV IN is selected.

 When performing Audio Dubbing or AV Insert, select A1 or A2.

Controlling the Recording VCR through the Playback VCR

Follow the procedure described below:

- Connect the edit cable to the EDIT socket on both the playback VCR and the recording VCR.
- Use AV cables to connect the input sockets on the recording VCR with the output sockets on the playback VCR.
- Connect two monitors, one to each of the VCRs, so that the screens from both VCRs can both be seen.
- Set EDIT CONTROL on both the playback VCR and the recording VCR to EDIT.
 Press INPLIT SELECT on the playback VCR and
- Press INPUT SELECT on the playback VCR and select a position to which a cable is not connected.
- Set EDIT MODE on both VCRs as follows: Playback VCR: PLAYER Recording VCR: PASSIVE



Recording VCR

Playback VCR

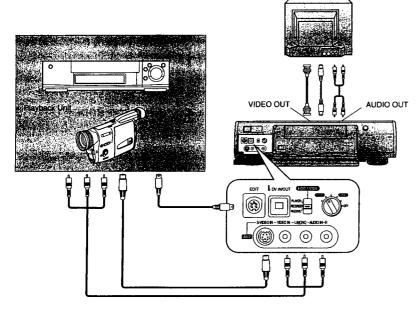
otes:

- When this connection is made, the recording VCR cannot be controlled using the DV cable.
- Although noise may appear on the screen, depending on the connections, the noise has no effect on the actual editing operations.
- Audio Insert and AV Insert are not possible in this configuration.
- When performing editing with this connection, the editing accuracy may be worse than when controlled from the recording VCR.

Connecting an S-VHS (VHS) Video Equipment with an Edit Socket

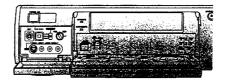
Example for connecting an S-VHS (VHS) Video Equipment with an Edit socket as the playback unit, when controlling the playback unit through the recording VCR (this unit).

Refer to the diagram below and connect the cables required for the desired editing function.



Notes

- Before connecting any cables, first make sure that the power for both units is off.
- Insert a recorded cassette into the playback unit, and a cassette with the closed record prevention tab into the VCR.
- If the playback unit is connected to the recording unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority. If the playback unit does not have an S-VIDEO socket do not connect the S-VIDEO cable to this unit
- · Read the operating instructions of the playback unit.
- Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.
- When using this VCR as the recording VCR, the On Screen Display (date/time, Time Code) may scroll vertically when still playback or slow playback are performed by the playback VCR.
- When using the BNC socket, use a BNC-PHONO conversion adapter (sold separately).





Playback Unit (S-VHS (VHS) Video Equipment with an Edit socket)

1 Turn the power on.

2 Set the unit so that it is ready to be

 Read the operating instructions of the playback unit and make the necessary settings.

Recording VCR (this unit)

Turn the power on.

Set EDIT MODE to RECORDER.



3 Set EDIT CONTROL to EDIT.



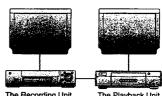
Press INPUT SELECT so that A2 is selected.

 If the playback unit is connected to the external input on the rear of this unit, select A1.

Connecting this unit as the Playback VCR to an S-VHS (VHS) VCR

Follow the procedure described below.

- Connect the edit cable to the EDIT socket on both the playback VCR and the recording VCR.
- Use AV cables to connect the output sockets on this unit with the input sockets on the S-VHS (VHS) VCR.
- Connect two monitors, one to this VCR and one to the S-VHS (VHS) VCR, so that the screens from both VCRs can both be seen.
- Set EDIT CONTROL on this unit to EDIT.
- · Set EDIT MODE on this unit to PLAYER.
- Press INPUT SELECT on this unit and select a position to which a cable is not connected.
- Make the necessary editing control settings for the S-VHS (VHS) VCR. (Read the operating instructions of S-VHS (VHS) VCR.)

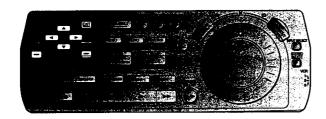


The Recording Unit

The Playback Unit (this unit)

lote:

Audio Insert and AV Insert are not possible in this configuration.



Preparations

- Confirm that the monitor is on and the VCR viewing channel is selected.
- Complete necessary connections and settings.
 See pages 24-29.

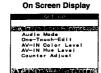
Search with Sound

1 Press SET UP.



2 Select Search With Sound.





3 Select OFF, EDIT ONLY or ALWAYS ON.



OFF: The sound cannot be heard during special

EDIT ONLY: The sound can be heard during special playback only when an editing operation is

in progress.

ALWAYS ON: The sound can be always heard during special playback.

4 Press EXIT to exit the On Screen Display.

Audio Mode

1 Press SET UP.



2 Select Audio Mode.





3 Select 12bit or 16bit.





12bit: Divides the audio area into two stereo audio tracks, STEREO1 and STEREO2.

•If a recording is made in 12bit audio mode, the sound is recorded on STEREO1 only, and is not recorded on STEREO2. STEREO2 is used to record new audio that is added through Audio

Dubbing or Audio Mixing.

16bit: Uses the entire audio area in order to record audio with greater quality.

4 Press EXIT to exit the On Screen Display.

One-Touch-Edit

1 Press SET UP.



2 Select One-Touch-Edit.





AV-IN Color Level

1 Press SET UP.



2 Select AV-IN Color Level.





3 Select OFF or ON.



OFF: Select this whenever you are performing any editing function other than One-Touch-Edit.
ON: Select this in order to perform One-Touch-Edit.

 One-Touch-Edit is possible only when EDIT CONTROL is set to either DV or EDIT, and EDIT MODE is set to RECORDER.

4 Press EXIT to exit the On Screen Display.

3 Select SOURCE or ADJUST.





SOURCE:

Normally set this position.

ADJUST: To adjust the color level of the input external recording source connected to A1

or A2

If you select **ADJUST** and then press **OK**, the AV-IN Color Level screen is displayed.

4 Adjust the color level using ◀▶



Press ◀ to make the color lighter
Press ► to make the color darker
The setting can be adjusted over a range of ±20.

5 Press SET UP, and then press EXIT to exit the On Screen Display.

Notae:

- If INPUT SELECT is set to DV IN, the Audio Mode, AV-IN Color Level, and AV-IN Hue Level cannot be selected on SET UP screen.
- The AV-IN Color Level and AV-IN Hue Level can be selected in following cases: INPUT SELECT is set to A1 or A2; When the VCR is in stop mode

31

2 Select AV-IN Hue Level.

1 Press SET UP.

AV-IN Hue Level

Search with Sound Audio Mode One-Touch-Edit AV-IN Color Level Counter Adjust

3 Select SOURCE or ADJUST.



SOURCE: Normally set this position.

ADJUST: To adjust the hue level of the input external recording source connected to A1 or A2.

If you select **ADJUST** and then press **OK**, the AV-IN Hue Level screen is displayed.

4 Adjust the hue level using ◀▶.



The setting can be adjusted over a range of ±20.

5 Press SET UP, and then press EXIT to exit the On Screen Display.

Counter Adjustment

1 Press SET UP.



2 Select Counter Adjust.





3 Select ON or OFF.



- ON: When the counter mode of the connected unit is set to "DV Time code".
- OFF: When a non-digital video equipment is connected. Also use this setting if a digital video equipment is connected but that VCR's counter mode is set to tape counter display.
- 4 Press EXIT to exit the On Screen Display.

Notes

- If INPUT SELECT is set to DV IN, the Audio Mode, AV-IN Color Level, and AV-IN Hue Level cannot be selected on SET UP screen.
- The AV-IN Color Level and AV-IN Hue Level can be selected in following cases:

INPUT SELECT is set to A1 or A2; When the VCR is in stop mode

 The Counter Adjustment function operates automatically if a digital video equipment is connected but that tape counter is displayed.

In order to operate editing functions correctly, use these tapes for editing as follows:

- Tape on which the picture and sound have been recorded property for about 20 seconds prior to the edit start point: [Playback unit] [Recording unit] This VCR first rewinds the tape to the section prior to the edit start point and then commences editing. For this reason, accurate editing cannot be performed if the tape has been left blank or if the picture and sound have not been recorded property for 20 seconds prior to the edit start point.
- Tape on which the Time code has been recorded continuously: [Playback unit] [Recording unit]
- If the recording is broken up or if the tape is blank in places, the Time code will lack continuity, and editing will be aborted.
- Tape which was recorded in SP mode: [Recording unit]
 (This applies to Insert, Audio Dubbing and Audio Mixing only.)

 The above types of editing operations cannot be performed on a tape which was recorded in the I P mode.
- Tape which was recorded in the 12bit audio mode: [Recording unit] (This applies to AV Insert, Audio Dubbing and Audio Mixing editing only.)
 The above types of editing operations cannot be performed on a tape which was recorded in the 16bit audio mode.

When a tape which was recorded on another video recorder is used for insert, Audio Dubbing or Audio Mixing editing operations, the sound may deteriorate and the picture may be disturbed.

If tapes answering to the above description are not available, proceed with dubbing by following the steps below to create the tapes for editing.

- 1 Load the original cassette tape into the playback unit and the new cassette tape into the recording VCR (this VCR).
- 2 Connect the playback unit and recording VCR (this VCR).
 - For the connection, use the DV cable when the contents of the original cassette are to be copied using their original digital signals, and use the AV cable when the contents are to be copied using the signals from the video and audio sockets.
 - (To dub a 16bit audio tape and make a 12bit audio tape, connect the units using the AV cables, and proceed with the dubbing.)
- 3 Check that EDIT CONTROL is at the OFF position.
- 4 Set the VCR's tape speed to SP.

Creating the Tapes For Editing

- 5 Record a blank picture for about 20 seconds.
 - Set the playback unit to the stop mode, set **INPUT SELECT** on the recording VCR (this VCR) to A2 and start recording.
- 6 Switch over the input of the recording VCR (this VCR).
 - If the DV cable was used for the connection in step 2, switch over to "DV IN"; if the AV cable was used, switch over to A1or A2.
- 7 Press the play button on the playback unit to start playing the original tape.
- 8 Press REC on the recording VCR (this VCR) to start dubbing.

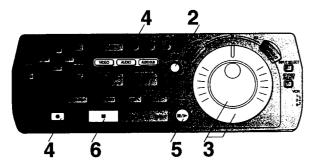
Notes:

- Digital copying using a DV cable yields a picture quality which undergoes hardly any deterioration at all.
- If a digital video tape is dubbed without connecting the DV cable, the original sub code data (Photoshot index signals, date information, etc.) will not be copied.
- The Time code is simultaneously recorded over the sub code of the tape when the tape is recorded. Also recorded in the sub code are the photoshot index signals, information on the recording date, etc.

For further details on the Time code, see page 66.

Editing when Not Using an Edit Cable

To connect a VCR or Movie Camera without an Edit Socket and use this unit as the Recording VCR.



Preparations

- · Complete necessary connections and settings. See pages 24-33.
- · Connect the INPUT1 or AV2 on this unit to the playback

Set INPUT SELECT on this VCR.

- A1: Through the INPUT1 sockets.
- A2: Through the AV2 sockets.
- . If the playback unit has a DV terminal, connect to the DV IN/ OUT on this unit with a DV cable.

Operations

Using the controls on the playback unit, search for the edit start point, and then pause the playback.

Press JOG/SHUTTLE on this unit, and check that the button is



Search for the edit start point.





VIDEO INSERT



AV INSERT

AUDIO DUBBING

- Press the button for the editing mode on
 - To copy the contents of the tape in the playback unit as is: Press REC.
 - To insert picture: Press VIDEO INSERT. To insert sound: Press AUDIO INSERT. To insert picture and sound: Press VIDEO INSERT and then press AUDIO INSERT (or vice versa). To add new sound: Press AUDIO DUB. For Audio Mixing: Press AUDIO DUB and then press MIXING EDIT on the front right panel.
 - . The Audio Mixing procedure differs in part from other editing operations. See page 40.
 - The indicator that corresponds to the selected editing mode lights on the VCR display.

Indicators On the VCR Display



- Press PAUSE/SLOW on this unit and start playback on the playback unit simultaneously. Editing begins.
- Press **(STOP)** on this unit, and then press STOP on playback unit to stop

- · Although Copying can be performed in LP mode, Insert and Audio Dubbing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in LP mode;

Blank, or contains a blank portion in the middle.

 AV Insert , Audio Dubbing and Audio Mixing are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode;

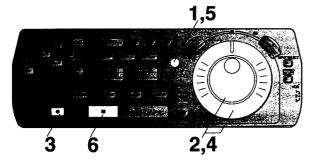
Recorded in LP mode:

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

• If the time display on this unit is set to tape counter mode during editing, this unit stops the editing operation automatically when the counter reaches "0:00.00". (This function does not work when using the Copying or Audio Dubbing functions.)

One-Touch Assemble

If the One-Touch Edit function is used, Assemble editing can be performed by controlling the playback unit through this unit.



Preparations

- Complete necessary connections and settings.
 See pages 24-33.
- · Set One-Touch-Edit toON on SET UP menu.

Operations

Press JOG/SHUTTLE on this unit, and check that the button is lit.



36

Search for the edit start point on this unit.

Press JOG/SHUTTLE on this unit.

Editing begins.

 To continue editing, press JOG/ SHUTTLE on this VCR, and repeat steps 4-5.

Search for the edit start point on the

playback unit using Jog dial and Shuttle Ring on this unit.

6 Press ■(STOP) on this unit to stop editing.

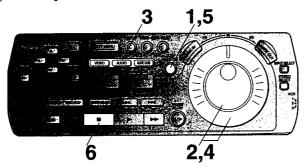
- 3 Press REC.
 - The picture from the playback unit appears on the screen.

Notes:

- Although Assemble editing can be performed in LP mode, Insert, Audio Dubbing, and Audio Mixing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- When using the editing controller for remote control:
 In order to conserve battery power, JOG/SHUTTLE turns off after one minute.

If JOG/SHUTTLE turns off after the edit start point has been set on the recording unit (step 2), it is necessary to press JOG/SHUTTLE again (so that it is lit) before searching for the edit start point on the playback unit. If JOG/SHUTTLE turns off after the edit start point has been determined on the playback unit (step 4), it is necessary to press JOG/SHUTTLE twice in order to start editing.

If the One-Touch Edit function is used, Insert (Video Insert, Audio Insert, and AV Insert) and Audio Dubbing can be performed by controlling the playback unit through this unit.



Preparations

- Complete necessary connections and settings. See pages 24-33.
- Set to One-Touch-Edit ON on SET UP menu.

Operations

Press JOG/SHUTTLE on this unit, and check that the button is lit.



Search for the edit start point on this unit.

Press the button for the editing mode on this unit.

To insert picture: Press VIDEO INSERT. To insert sound: Press AUDIO INSERT. To insert picture and sound: Press VIDEO INSERT and then press AUDIO INSERT (or vice versa). To add new sound: Press AUDIO DUB.

- The indicator that corresponds to the selected editing mode lights on the VCR display.
- · The picture from the playback unit appears on the screen.

Indicators On the VCR Display







AUDIO INSERT

AV INSERT

AUDIO DUBBING

Search for the edit start point on the

playback unit using Jog dial and Shuttle Ring on this unit.

Press JOG/SHUTTLE on this unit. SHUTTLE

- · Editing begins.
- To continue editing, press JOG/SHUTTLE on this VCR, and repeat steps 4-5.

Press **E(STOP)** on this unit to stop editing.

To monitor the edited audio after Audio Dubbing

Press STEREO SELECT during playback and select STEREO2.

- · Video Insert and Audio Insert are not possible in the following cases:
- When the tape in the recording VCR (this unit) is: Recorded in LP mode;
- Blank, or contains a blank portion in the middle. · AV insert and Audio Dubbing are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode:

Recorded in LP mode; Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

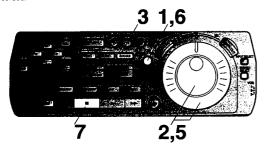
- . If the time display on this unit is set to tape counter mode during editing, this unit stops the editing operation
- automatically when the counter reaches "0:00.00". In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- · When using the editing controller for remote control: In order to conserve battery power, JOG/SHUTTLE turns off after one minute.

If JOG/SHUTTLE turns off after the edit start point has been set on the recording unit (step 2), it is necessary to press JOG/SHUTTLE again (so that it is lit) before searching for the edit start point on the playback unit. If JOG/SHUTTLE turns off after the edit start point has been determined on the playback unit (step 4), it is necessary to press JOG/SHUTTLE twice in order to start

One-Touch Audio Mixing

This function is used to mix the audio on STEREO1, which has already been recorded, with audio from a external recording source (A1 or A2), and record the result on STEREO2.

This function is useful for adding new audio, such as music or a narration, to the original audio which has already been recorded.





Preparations

- Complete necessary connections and settings. See pages 24-33.
- Set to One-Touch-Edit ON on SET UP menu.

Operations

Press JOG/SHUTTLE on this unit, and check that the button is



Search for the edit start point on this unit.

Press AUDIO DUB on this unit.

The picture from the playback unit appears on the screen.

Press MIXING EDIT on this unit.

Search for the edit start point on the playback unit using Jog dial and Shuttle Ring on this unit.



Press JOG/SHUTTLE on this unit.

· Editing begins.

• If you wish to adjust the volume of the original audio (STEREO1) and external recording source (A1 or A2) during Audio Mixing, AUDIO MIX: To adjust the volume of the

original audio (STEREO1). **AUDIO REC LEVEL:**

To adjust the volume of the audio from external recording source (A1 or A2).

· To continue editing, press JOG/SHUTTLE on this VCR, and repeat steps 5-6.

Press ■ (STOP) on this unit to stop

To monitor the mixed signal after Audio

Press STEREO SELECT during playback and select STEREO2.

 Audio Mixing is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode;

Recorded in LP mode;

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

• In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.

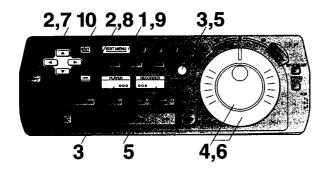
When editing with a microphone

- 1. Connect the microphone to the MIC socket.
- 2. Press JOG/SHUTTLE.
- 3. Use Jog Dial and Shuttle Ring to search the recording start point.
- 4. Press AUDIO DUB.
- 5. Press MIXING EDIT.
- 6. Use AUDIO REC LEVEL slider to adjust the microphone
- 7. Press PAUSE/SLOW.
- 8. Press E(STOP) to stop editing.
- The audio from the microphone is recorded as monaural audio. Use audio cables to connect audio equipment, etc., in order to record in stereo.
- . If both the MIC socket and the line inputs are connected, the audio from the MIC socket is given priority in recording.



Manual Copying

This function can be used to copy tapes between digital video equipments with practically no deterioration in quality. This function can also copy a tape that was recorded in S-VHS (VHS) format onto a digital video tape.



Preparations

· Complete necessary connections and settings. See pages 24-33.

Operations

20

Press EDIT MENU.



Check that Copying is selected and press OK.







Press PLAYER, and then press JOG/ SHUTTLE.

. The picture from the playback unit appears on the



Search for the edit start point on the playback unit.

On Screen Display





Press RECORDER, and then press JOG/SHUTTLE.

• The picture from the recording VCR appears on the



Search for the edit start point on the recording VCR.



Select Start Copying.



Press OK. · Editing begins.



Press EDIT MENU to stop editing.



· Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to

Press EXIT.

• The On Screen Display disappears.



- cable, the original sub code data (photoshot index signals,
- Although Copying can be performed in LP mode, Insert and Audio Dubbing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- properly, the editing points should be set at least 20 seconds after the beginning of the tape.

On Screen Display

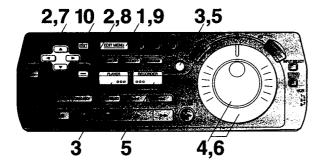




- If a digital video tape is copied without connecting a DV recording date, etc.) is not copied.
- In order to ensure that the editing operation is performed
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up to ±1 second of slight deviation in the specified edit start position can be corrected. See page 64 for Edit Timing Adjustment.

Manual Insert

This function is used to replace the picture and sound on a recorded tape.



Preparations

 Complete necessary connections and settings. See pages 24-33. Example: Video Insert

Operations

21

Press EDIT MENU.



Select Video Insert, and then Press OK. To insert picture: Select Video Insert. To insert sound: Select Audio Insert. To insert picture and sound: Select AV Insert.



Press PLAYER and JOG/SHUTTLE.

• The picture from the playback unit appears on the screen.



Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in LP mode: Blank, or contains a blank portion in the middle.

On Screen Display







Search for the edit start point on the playback unit.

Press RECORDER and JOG/ SHUTTLE.

. The picture from the recording VCR appears on



Search for the edit start point on the recording VCR.



(

Select Start Insert.



Press OK. · Editing begins.



Press EDIT MENU to stop editing.



· Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to start.

Press EXIT.





Notes:

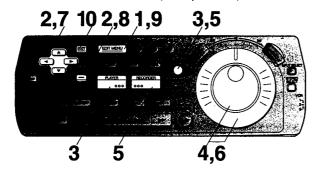
- AV Insert is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode:
- Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up to ±1 second of slight deviation in the specified edit start position can be corrected. See page 64 for Edit Timing Adjustment.

Video Insert



Manual Audio Dubbing

This function is used to add new sound on the STEREO2 track of previously recorded tape.



Preparations

· Complete necessary connections and settings. See pages 24-33.

Operations

Press EDIT MENU.



Select Audio Dubbing, and then Press



Press PLAYER and JOG/SHUTTLE.

• The picture from the playback unit appears on the



Search for the edit start point on the playback unit.

On Screen Display





Press RECORDER and JOG/ SHUTTLE.

The picture from the recording VCR appears on the



Search for the edit start point on the recording VCR.



Dubbing in Progress

Select Start Dubbing.



Press OK. · Editing begins.



Press EDIT MENU to stop editing.



· Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to

Press EXIT.

• The On Screen Display disappears.



To monitor the edited audio after Audio Dubbing

Press STEREO SELECT during playback and select STEREO2.

• Audio Dubbing Is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode;

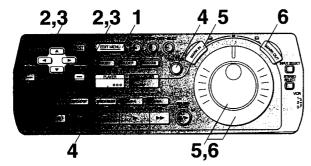
Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

- In order to ensure that the editing operation is performed. properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up td ±1 second of slight deviation in the specified edit start position can be corrected. See page 64 for Edit Timing Adjustment.

Program Assemble

This function can be used to link together desired scenes on a tape.

This function can also be used to skip unnecessary scenes recorded on a tape and copy them onto a separate tape.



Preparations

 Complete necessary connections and settings. See pages 24-33.

Operations

Š

1 Press EDIT MENU.

EDIT MENU

2 Select Program Editing, and then Press OK.



3 Select Assemble, and then Press OK.



Notes

- Program Editing can be performed using either the tape counter or Time code display, but the Time code display should be used if the units are connected only by a DV cable.
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programs screen is displayed.
 (The Erase all programs screen is also displayed when you change from the tape counter display to the Time code display.)

On Screen Display





- After setting a program, if you attempt to set another program in a different editing operation, the set contents for the previous editing operation remain on the setting screen.
 In order to prevent editing errors, perform the Erase all programs operation (page 61) whenever you set a program under a different editing mode.
- Program editing can not be performed with a movie camera that has a 4-digit counter.

Press PLAYER and JOG/SHUTTLE.

 The picture from the playback unit appears on the screen.



Search for the edit start point on the playback unit and press MARK IN.



Assemble
[Page 1]
①
If PLATER
Oh18m38s20f
In Oh16m38s20f
Out h m s f

>:next OK:done

Search for the edit end point on the playback unit and press MARK OUT.

(Continued on next page)



Assemble

(Page 1)

(I)

(II)

(II)

(II)

(II)

(III)

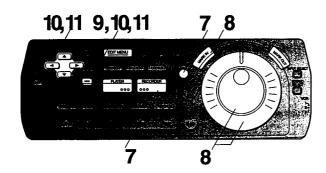
(I

lotos.

- Although Assemble editing can be performed in LP mode, Insert, Audio Dubbing, and Audio Mixing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The editing operation may not be performed correctly if the set duration of a program is less than 4 seconds.
- On video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank.

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

Program Assemble (continued)

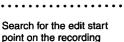


Press RECORDER and JOG/ SHUTTLE.

 The picture from the recording VCR appears on the screen.









9 Press OK.

 "OK: done" is not displayed at the bottom of the screen.



To check and change programs:

Select Confirm/Change and then press OK.

VCR and press MARK IN.

- To confirm, change, insert or erase editing programs, see pages 60-61.
- Programs cannot be inserted or erased through the recording unit.

To continue setting programs:

- 1 Press EDIT MENU.
- 2 Press PLAYER.
- 3 Using ◀ ▶, select the program number. The program number changes each time these buttons are pressed.

(Up to 40 programs can be set. 10 programs can be set on one page; if this number is exceeded, the display automatically changes to the next page.)

4 Repeat steps 4-6 and 9.

On Screen Display





10 Select Start Assemble to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 After completing editing, select Review,

• The edited pictures are played back.



and then press OK.

To interrupt editing or Review: Press EDIT MENU.

Notes:

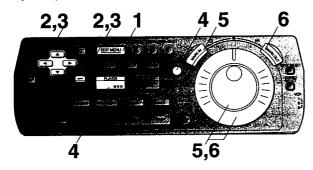
- The Preview function cannot be used with the Assemble function.
- Up to ±1 second of slight deviation in the specified edit start/end position can be corrected. See pages 62-63 for Edit Timing Adjustment.





Program Insert

This function is used to replace the picture and sound on a recorded tape.



Preparations

· Complete necessary connections and settings. See pages 24-33.

Example: Video Insert

Operations

Press EDIT MENU.

Select Program Editing, and then Press OK.



On Screen Display



Notes:

- Program Editing can be performed using either the tape counter or Time code display.
- . If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programs screen is displayed. (The Erase all programs screen is also displayed when you change from the tape counter display to the Time code display.)
- · After setting a program, if you attempt to set another program in a different editing mode, the set contents for the previous editing mode remain on the setting screen. In order to prevent editing errors, perform the Erase all programs operation (page 61) whenever you set a program under a different editing mode.
- · Program Editing can not be performed with a movie camera that has a 4-digit counter.
- · Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (this unit) is: Recorded in LP mode;

Blank, or contains a blank portion in the middle.

Select the desired editing operation, and then press OK.

To insert picture: Video insert. To insert sound: Audio insert.

To insert picture and sound: AV Insert.

Press PLAYER and JOG/SHUTTLE.

The picture from the playback unit appears on the





Search for the edit start point on the playback unit and press MARK IN.



Search for the edit end point on the playback unit and press MARK OUT.



(Continued on next page)

. AV Insert is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode:

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

Notes on editing point setting

- . The Program Insert and Audio Dubbing functions require the setting of only three editing points: the in and out points on the playback unit and the in point on the recording unit, or the in point on the playback unit and the in and out points on the recording unit.
- . If both in and out points are set on both the playback unit and the recording unit, and the times between the points do not match, editing stops at the first out point that is reached.

Audio Insert AV Insert Audio Dubbing Erase all programs A CONTRACTOR OF THE STATE OF TH

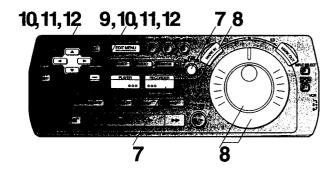




- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The editing operation may not be performed correctly if the set duration of a program is less than 4 seconds.
- On video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank.

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

Program Insert (continued)



7 Press RECORDER and JOG/ SHUTTLE.

The picture from the recording VCR appears on the screen.

..........



Search for the edit start point on the recording VCR and press MARK IN.



9 Press OK.



To check and change programs:

Select Confirm/Change and then press OK.

 To confirm, change, insert or erase editing programs, see pages 60-61.

To continue setting programs:

- 1 Press EDIT MENU.
- 2 Press PLAYER.
- 3 Using ◀►, select the program number. The program number changes each time these buttons are pressed.
- Up to 10 programs can be set.
- 4 Repeat steps 4-9.

On Screen Display





10 Select Preview to confirm the editing operation before performing actual editing, and then press OK.

 Preview begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 Select Start Insert to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



12 After completing editing, select Review, and then press OK.

The edited pictures are played back.



To interrupt editing, Preview or Review: Press **EDIT MENU**.

Note

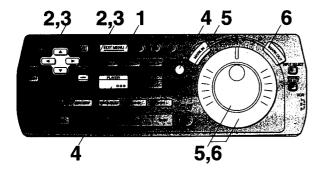
Up to ±1 second of slight deviation in the specified edit start/ end position can be corrected. See pages 62-63 for Edit Timing Adjustment.







This function is used to add new sound on the STEREO2 track of previously recorded tape.



Preparations

 Complete necessary connections and settings. See pages 24-33.

Operations

1 Press EDIT MENU.



2 Select Program Editing, and then Press OK.



On Screen Display



Notes

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- Program Editing can be performed using either the tape counter or Time code display.
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programs screen is displayed.

(The Erase all programs screen is also displayed when you change from the tape counter display to the Time code display.)

- Program editing can not be performed with a movie camera that has a 4-digit counter.
- After setting a program, if you attempt to set another program in a different editing mode, the set contents for the previous editing mode remain on the setting screen. In order to prevent editing errors, perform the Erase all programs operation (page 61) whenever you set a program under a different editing mode.
- Audio Dubbing is not possible in the following cases: When the tape in the recording VCR (this unit) is: Recorded in 16bit audio mode; Recorded in LP mode;

Blank, or contains a blank portion in the middle When INPUT SELECT is set to DV IN.

Select Audio Dubbing, and then press OK.



Press PLAYER and JOG/SHUTTLE.

 The picture from the playback unit appears on the screen.



Search for the edit start point on the playback unit and press MARK IN.



Search for the edit end point on the playback unit and press MARK OUT.



(Continued on next page)

Notes on editing point setting

- The Program Insert and Audio Dubbing functions require the setting of only three editing points: the in and out points on the playback unit and the in point on the recording unit, or the in point on the playback unit and the in and out points on the recording unit.
- If both in and out points are set on both the playback unit and the recording unit, and the times between the points do not match, editing stops at the first out point that is reached.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.



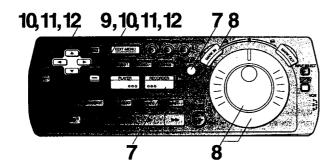


Audio Dubbing				
.0	_			
II PLAYER				
1	0h58m44s38f			
l In	0h57m08e11f			
Out	Oh58m44a381			
l				
	at , OK: done			

- The editing operation may not be performed correctly if the set duration of a program is less than 4 seconds.
- On video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains block

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

Program Audio Dubbing (continued)



Press RECORDER and JOG/ SHUTTLE.

. The picture from the recording VCR appears on the



Search for the edit start point on the recording VCR and press MARK IN.



Press OK.



To check and change programs:

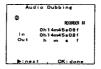
Select Confirm/Change and then press OK.

 To confirm, change, insert or erase editing programs, see pages 60-61.

To continue setting programs:

- 1 Press EDIT MENU.
- Press PLAYER.
- Using ◀ ▶, select the program number. The program number changes each time these buttons are pressed.
- Up to 10 programs can be set.
- 4 Repeat steps 4-9.

On Screen Display





10 Select Preview to confirm the editing operation before performing actual editing, and then press OK.

· Preview begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 Select Start Dubbing to start editing, and then press OK.

· Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.







12 After completing editing, select Review, and then press OK.

• The edited sounds are played back.





To interrupt editing, Preview or Review: Press EDIT MENU.

To monitor the edited audio after Audio Dubbing

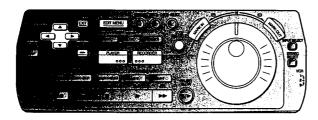
Press STEREO SELECT during playback and select STEREO2.

Up to ±1 second of slight deviation in the specified edit start/ end position can be corrected. See pages 62-63 for Edit Timing Adjustment.

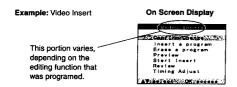








Once all program settings are completed, the screen shown at right is displayed.



To check/change programs:

Select Confirm/Change, and then press OK.
 The program list for the playback unit is displayed.

To check the program list for the recording unit, press **RECORDER**.

To just confirm the program settings, press EDIT MENU. If corrections are needed, continue with the procedure described below.

- 2 Select the program number for which changes are to be made, and then press OK.
 - The Program Change screen for the selected program number is displayed.
- 3 Press JOG/SHUTTLE.
- 4 Use the Jog Dial/Shuttle Ring to search for the editing point that is to be corrected.

- 5 To change an edit start point, press MARK IN. To change an edit end point, press MARK OUT.
- 6 Once all changes are completed, press OK.
- 7 Press EDIT MENU.

On Screen Display







To insert a new program between existing programs:

- Select Insert a program, and then press OK.
 The program list is displayed.
- Select the program number where a program is to be inserted, and then press OK.
 The Insert a program screen is displayed.
- 3 Refer to the pages that describe the Program Editing functions (on pages 48-59), and set the new program.
- 4 When setting is complete, press OK.
- 5 Press EDIT MENU.

To cancel a program:

- Select Erase a program, and then press OK.
 The program list is displayed.
- 2 Select the program number to be erased, and then press

..........

3 Press EDIT MENU.

To cancel all editing programs:

- 1 Press EDIT MENU twice.
- 2 Select Program Editing, and then press OK.
- 3 Check that Erase all programs is selected and press
 - •The Erase all programs screen is displayed.
- 4 Select YES, and then press OK.
 - The screen returns to the Program Editing menu.
 After the message indicating that "All programs have been erased." appears on the screen, operation returns to the EDIT MENU screen.
- 5 Press EDIT MENU.

If the EDIT MENU screen is cancelled before the above procedure is performed, the method for displaying the Program Editing changes.

Press EDIT MENU so that the EDIT MENU screen is displayed. Use to select **Program Editing**, and then press

Note

Programs set in the recording unit for the Assemble editing function cannot be inserted or erased.











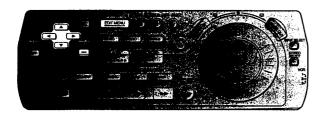


60

Edit Timing Adjustment

When performing editing in conjunction with a unit which has a different machanism, there may be a lag in the edit start point due to a deviation between the time a pause cancellation signal is received by the recording unit and the time recording actually

Edit Timing Adjustment is used to compensate the edit start and end time in light of this start-up time deviation.



Program Editing

After setting edit start/end points, the actual editing operation may start slightly before or slightly after the position that was set, depending on the equipment that is connected. The procedure described below can adjust the edit timing in order to correct for errors of up to approximately ±1 second in the edit start points and edit end points on the playback unit.

Example: Video Insert

Operations

Press EDIT MENU.

Select Program Editing, and then Press OK.

Select desired editing operation, and then press OK twice.

On Screen Display





Select Timing Adjust, and then press



Adjust the timing for the edit start point by setting the amount of the discrepancy for the **①** start-up time.

. The setting is displayed in frames (apporoximately 1/30 of a second) units. Press ▶if the start point is too early: press ◀ if it is too late.

- · Each time the button is pressed, the tape moves
- Corrections can be made in the range of ± 30

Adjust the timing for the edit end pont in same way.

3 •

Select Start Insert (Assemble or Dubbing), and then press OK.

. If the results of editing indicate that the adjustment is inadequate, repeat steps 4-8.



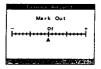
Press OK.



- The procedure described on these pages is to be performed after exiting the EDIT MENU screen. If this procedure is performed after having executed Start Editing or Review, start this procedure from step 4 on the Video Insert (Assemble, Audio Insert, AV Insert or Audio Dubbing) screen.
- The adjusted frame unit is applied to all of the programs that have been set at the moment when the adjustment is made.

Insert a program
Erase a program
Preview
Start Insert







Edit Timing Adjustment (continued)



Manual Editing

If there is a deviation in the results of a manual editing operation, the timing of the edit start (In) position on the playback unit can be adjusted by approximately \pm 1 second. Perform the procedure described below when setting an edit start point in any editing mode.

Example: Manual Copying

Operations

Select Timing Adjust, and then press OK.

Adjust the timing for the edit start point by setting the amount of the discrepancy for the start-up time.

The setting is displayed in frames (apporoximately 1/30 of a second) units.

or a second) units.

Press ▶if the start point

is too early; press ◀ if it is too late.
Each time the button is pressed, the tape moves by 1 frame.

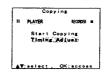
 \bullet Corrections can be made in the range of $\,\pm\,30\,$ frames.

Press OK.

Select Start Copying (Insert, Dubbing), and then press OK.
 If the results of editing indicate that the adjustment is inadequate, repeat steps 1-3.

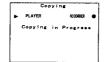
→ •

On Screen Display









On Screen Display Messages

Before requesting service, check the following points once

The error message is indicated in brackets [].

[Please insert video tape.]

■ REC, ▷ (PLAY), ▶▶ (FF), ◄◄ (REW) or JOG/ SHUTTLE is pressed when no cassette is in the VCR. Insert a video cassette.

[Recording not allowed. Check setting of the record-prevention tab.]

REC, VIDEO INSERT, AUDIO INSERT or AUDIO DUB has been pressed when using a cassette with the opened record-prevention tab. Use a cassette with a closed record-prevention tab.

[This function cannot be made in the blank part of the tape.]

*** Are you trying to edit using a blank tape, or a tape that contains a blank segment in the middle?

Editing is not possible in blank segments (because there are no Time codes). In order to use such a tape for editing, copy the tape once so that continuous Time codes are recorded on the tape, even if there is nothing else recorded on the tape. See page 33.

[This function is not allowed in LP-recorded section of the tape.]

It is not possible to edit a tape that was recorded in LP mode, or that was recorded partly in SP mode and partly in LP mode. Make a copy of the tape in SP mode and then use that tape. See page 33.

[This function cannot be made with 16bit mode audio recording.]

Poes the audio mode change in the middle of the

use that tape. See page 33.

tape?
The Audio Dubbing and AV Insert functions can only be used on a tape that was recorded in 12bit audio mode. Make a copy of the tape in 12bit mode and then

[EDITING cannot be made. Please check switches setting and cables.]

- Are the necessary cables for controlling the playback unit (Edit cable or DV cable) connected? Connect cables for controlling.
- Are EDIT MODE, EDIT CONTROL, and the input select setting on this VCR set properly for the desired editing operation?
- Is there more than one digital video device (including personal computers) connected to this VCR?
- Are this VCR and another unit connected to this VCR both set to control each other (if the connected unit is a digital video device)?

[Audio Dubbing or Audio Mixing cannot be made with DV input mode.]

Audio Dubbing and Audio Mixing functions will not work if INPUT SELECT is set to DV IN. Set to A1 or A2.

[AV Insert cannot be made with DV input mode.]

s# AV Insert will not work if INPUT SELECT is set to DV IN. Set to A1 or A2.

[Please select DV input mode.]

Is EDIT CONTROL set to DV, but INPUT SELECT is set to something other than DV IN?

[This tape is an incorrect type. Please replace the tape.]

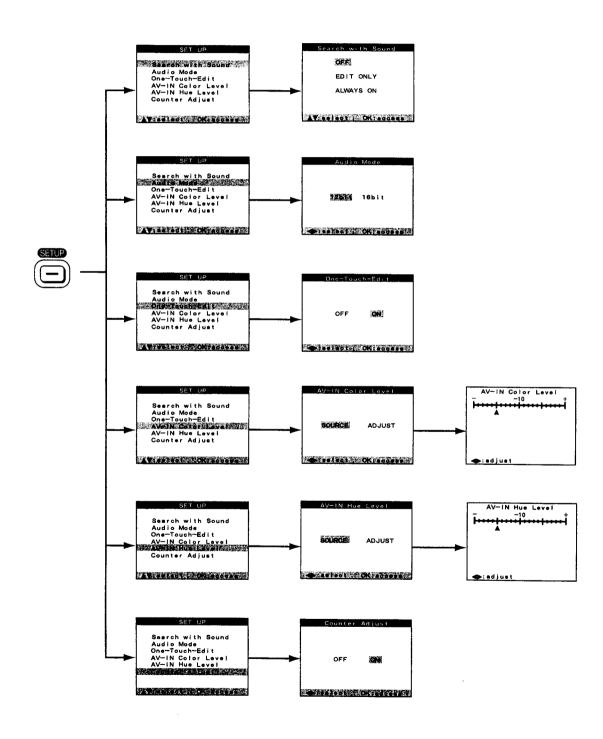
A video cassette tape other than a DV or MINI DV cassette has been inserted.

DVCPRO cassettes cannot be used with this VCR.

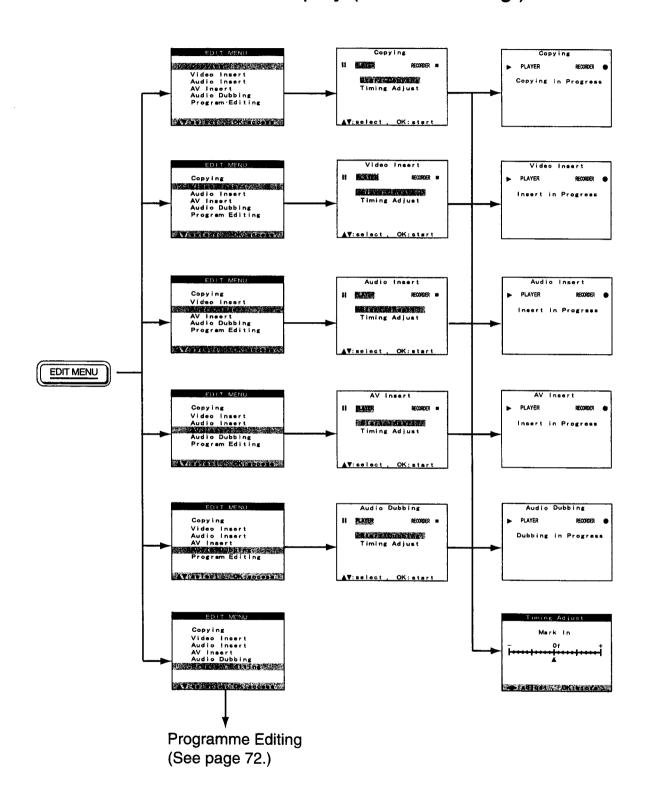
Other messages may also appear. Follow the instructions in the message.

Flow Chart for On Screen Displays

SET UP On Screen Display

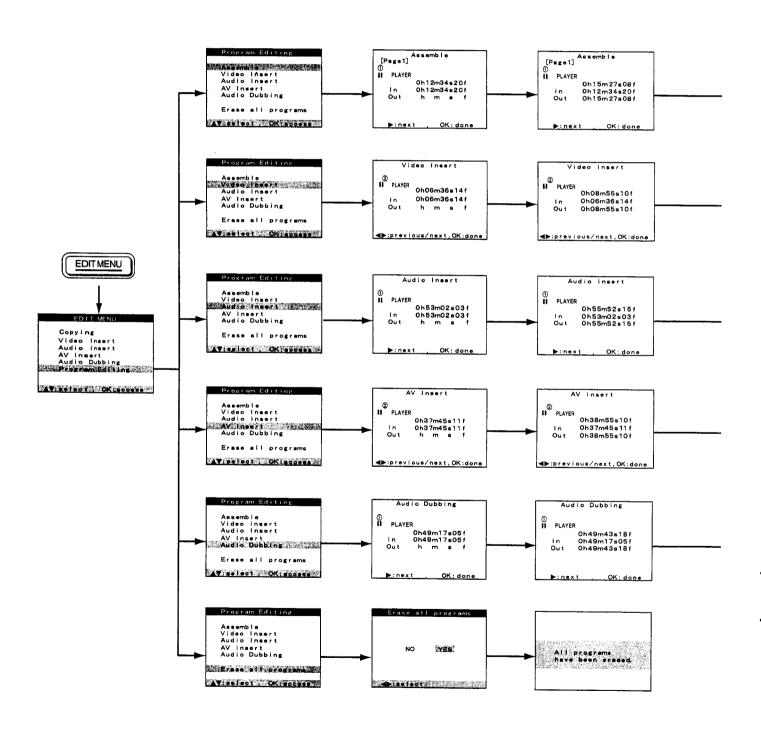


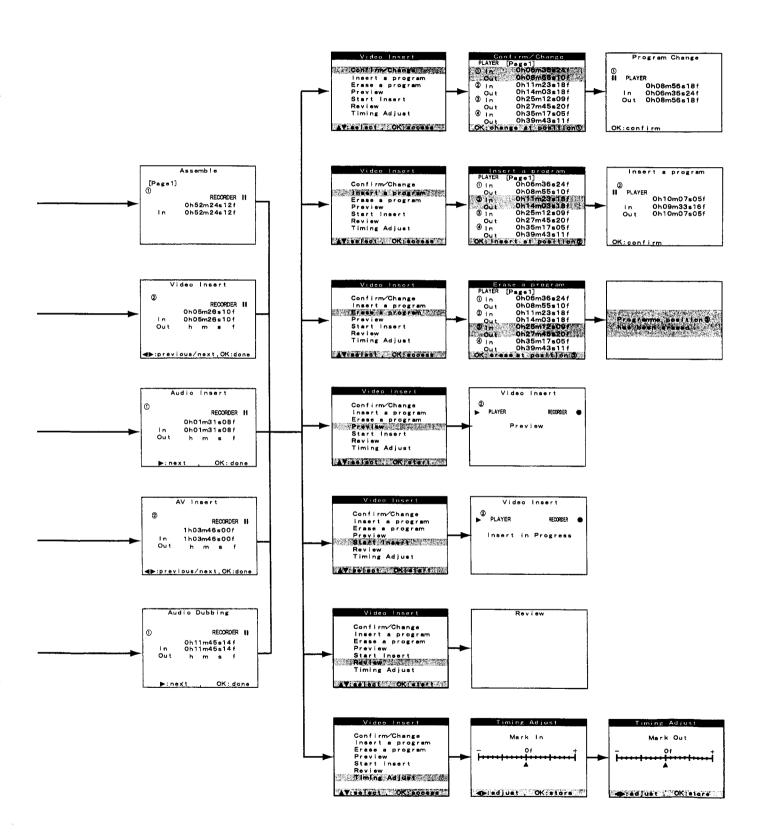
EDIT MENU On Screen Display (Manual Editing)



Flow Chart for On Screen Displays (continued)

Program Editing On Screen Display





ADJUSTMENT PROCEDURES

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SECTION 2 ADJUSIMENT PROCEDURES

3.DISASSEMBLY/ASSEMBLYPROCEDURES

3-1. Disassembly/Assembly Procedures for cabinet parts, C.B.A. and Mechanism Unit

3-1-1. Disassemble Flow Chart for cabinet parts, C.B.A. and Mechanism Unit.

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in reverse order.

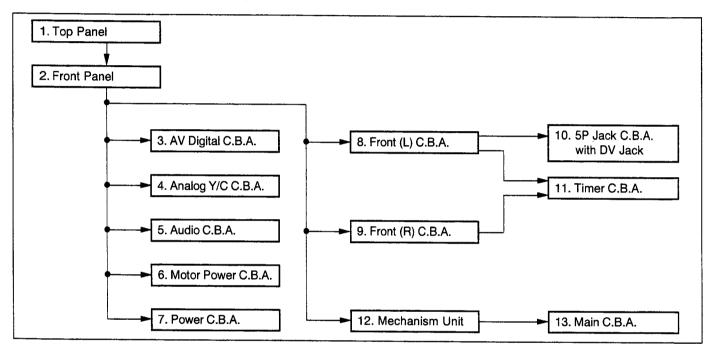


Fig. 1-1 Flow Chart

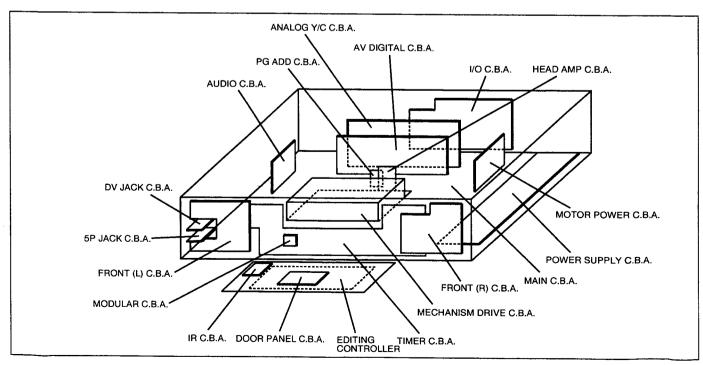


Fig. 1-2

3-1-2.Disassembly/Assembly Procedures (for cabinet parts, C.B.A. and Mechanism Unit)

No.	ITEM / PART	FIG.	REMOVAL (SCREW)
1	Top Panel	Fig. D-1	
			1-Screw (B)
			Remove Side Plate (6 Hooks).
2	Front Panel	Fig. D-2	2-Screws (C)
			1-Connector (P3701)
1			9-Locking Tabs (a)
		Fig. D-3	When Front Panel is installed,
<u> </u>			confirm the Connector P7504.
3	AV Digital C.B.A.	Fig. D-6	2-Screws (D)
1			2-Connectors (FP3201, P3701)
		Fig. D-5	
			When the EVR Connection C.B.A.
		ļ	is installed, confirm the arrow
L.			direction on C.B.A
4	Analog Y/C C.B.A.	Fig. D-6	2-Screws (E)
5	O.B.A.	Fig. D-6	Note 2: 2-Locking Tabs (b)
6	Motor Power		1-Connector (P2502)
١°	C.B.A.	rig. D-6	Note 2: 2-Locking Tabs (c)
7	Power C.B.A.	Fig. D-6	
l ′	rower C.B.A.	rig. D-6	7-Locking Tabs (d)
8	Front (L) C.B.A.	Fig D 2	1-Connector (PS4851)
ľ	FIGHT (L) C.B.A.	Fig. D-3	2-Locking Tabs (e)
9	Front (R) C.B.A.	Fig. D-3	
ľ	TIOIR (N) C.B.A.	rig. D-3	2-Locking Tabs (f)
10	5P Jack C.B.A.	Fig D-5	1-Screw (G)
'`	& DV Jack	1 ig. D-3	2-Connectors (P3781, P7651)
	C.B.A.		1-Locking Tab (g)
11	Timer C.B.A.	Fig. D-4	0 (0)
1		'g. 5 4	(P7501, P7502, P7503)
1			6-Locking Tabs (h)
12	Mechanism Unit	Fig. D-5	
		3 3	Set the Mechnism to the
1			"Eject" position.
			4-Connectors
1			(P2705, FP5002, P6504, P6505)
			3-Screws (H)
13	Main C.B.A.	Fig. D-6	
			8-Locking Tabs (i)

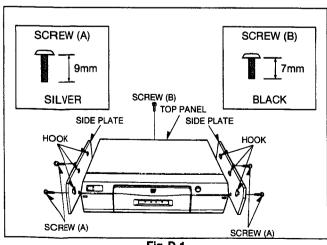


Fig. D-1

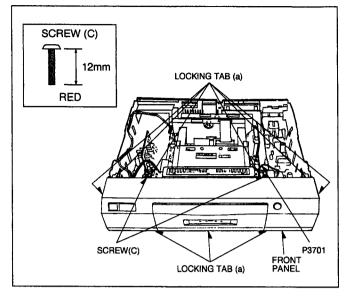


Fig. D-2

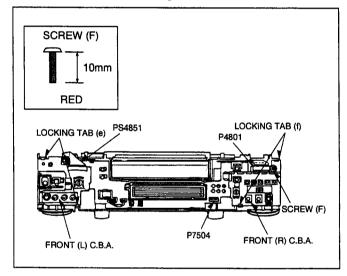


Fig. D-3

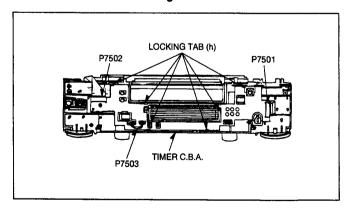


Fig. D-4

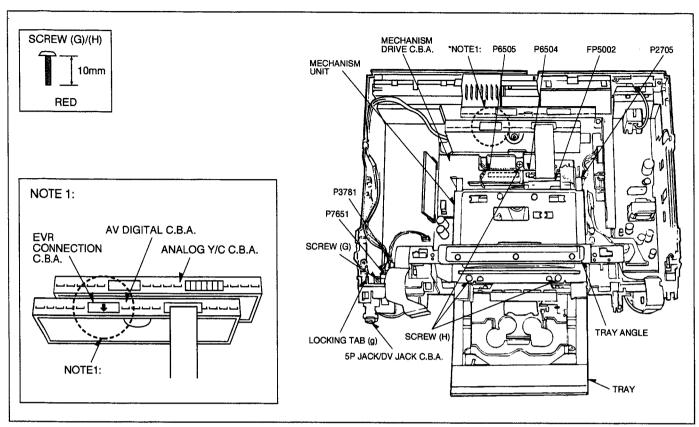


Fig. D-5

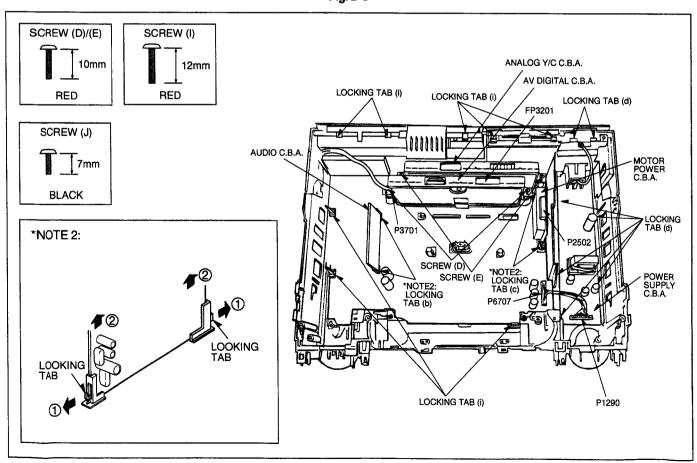


Fig. D-6

3-2. Disassembly/Assembly Procedures for Mechanism

3-2-1. Disassemble Flow Chart for Mechanism

This procedure starts with the condition that the mechanism unit has been removed from the unit.

The following chart indicates disassembly steps of the mechanical parts in order to gain access to part for servicing. When reinstalling, perform the steps in reverse order.

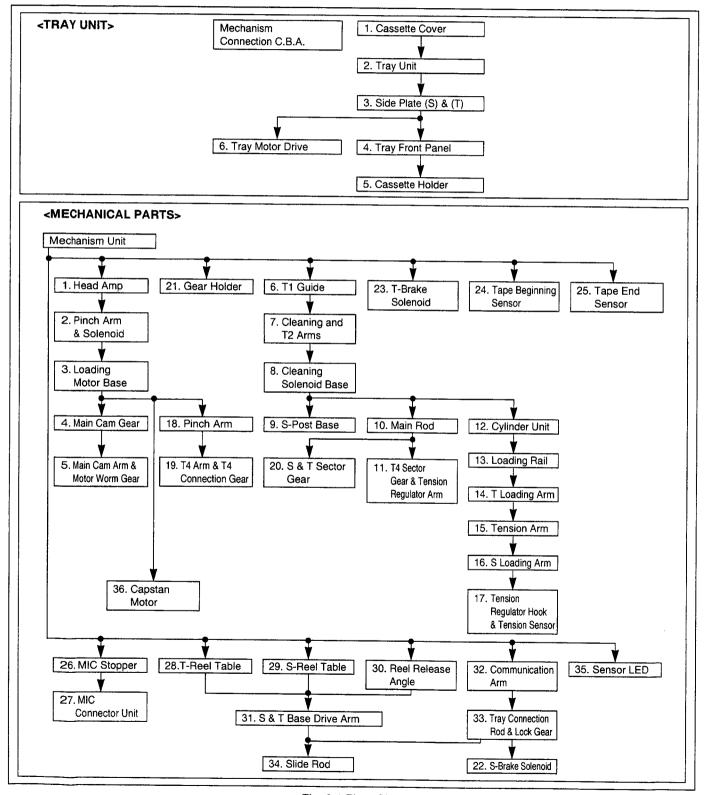


Fig. 2-1 Flow Chart

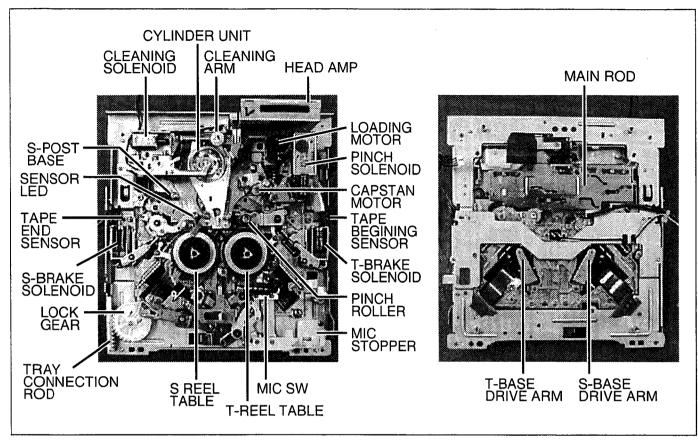


Fig. 2-2

3-2-2. Disassembly/Assembly Procedures (for Mechanical Parts)

1. Mechanism Connection C.B.A.

Unscrew 4 screws and disconnect following connectors.

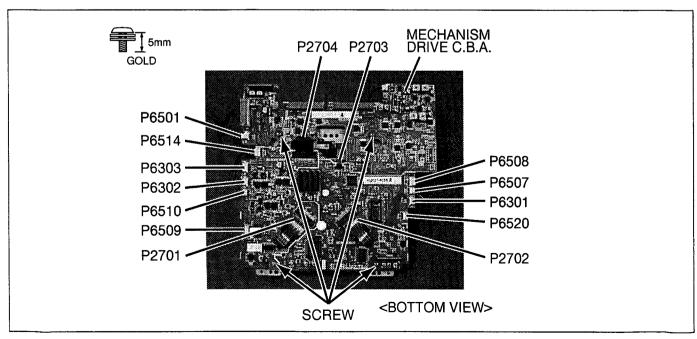


Fig. 2-3

2. Tray Unit

2-1. Cassette Cover

Fig. T-1 Set the Mechanism to Tray open position.

Unscrew 2 screws (A), then slide the Cassette
Cover and unhook the hooking portion.

Fig. T-2 When the Tray can not be opened normally, slowly turn the Tray Drive Shaft until the Tray is fully opened

2-2. Tray Unit

Fig. T-3 Unscrew 4 screws (B) and disconnect P6502 when Mechanism Drive C.B.A. is connected to Mechanism Unit.

Fig. T-4 Since the Side Plate (S) is located underneath the Tray Connection Rod, then shift the Side Plate (S) in the front direction and lift it up.

Note of installation

Fig. T-5

Push the Tray Connection Rod in the rear direction and install the Tray Unit so that the Reel Shaft on the Side Plate (S) meets the groove on the Tray Connection Rod.

2-3. Side Plate (S) and (T)

Fig. T-6 Set the Pinion Gear so that the projection (A) is aligned to the Dot Mark on the Rack (S) and (T) and remove the Side Plate (S) and (T).

Note of installation

Fig. T-10 Confirm the position of the Cassette Change Lever. (Down position)

Fig. T-7 Install the Pinion Gear so that the projection (B) on the pinion Gear is aligned to the hole on the Tray Drive Shaft Gear.

Fig. T-6 Install the Side Plate (S) and (T) so that the projection (A) is aligned to the dot mark on the Rack (S) and (T).

2-4. Tray Front Panel

Fig. T-8 Unscrew 2 screws (C) and unlock 4 locking tabs (A), then remove the Tray Front Panel.

2-5. Cassette Holder

Fig. T-9 Slightly open the S and T Rack Unit and slowly remove the Cassette Holder from the Groove on the S and T Rack Unit.

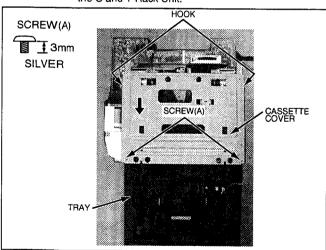


Fig. T-1

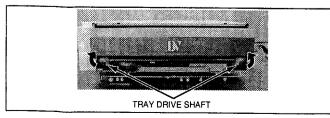


Fig. T-2

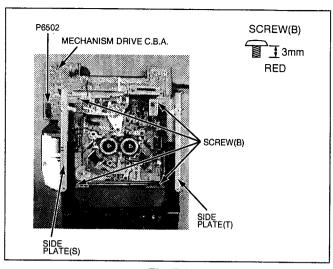


Fig. T-3

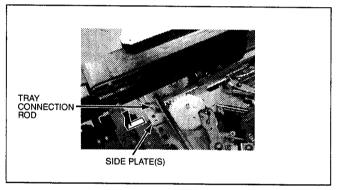


Fig. T-4

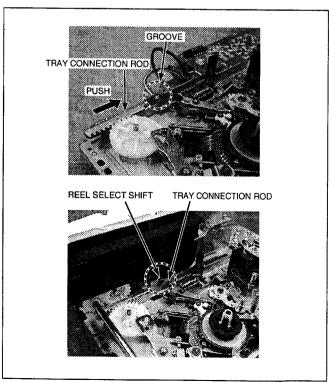


Fig. T-5

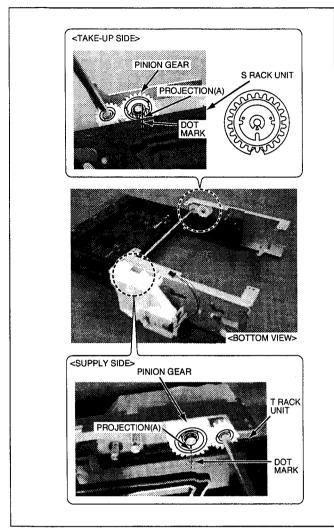


Fig. T-6

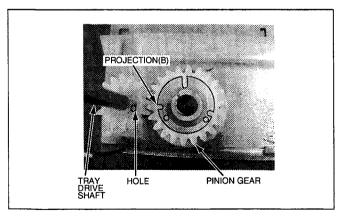


Fig. T-7

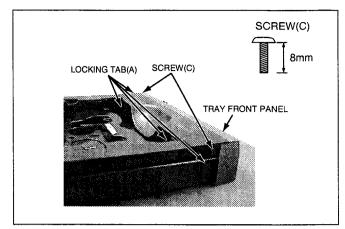


Fig. T-8

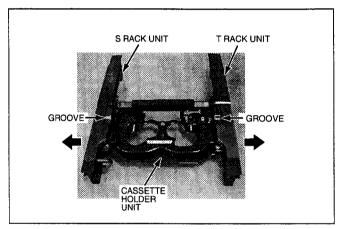


Fig. T-9

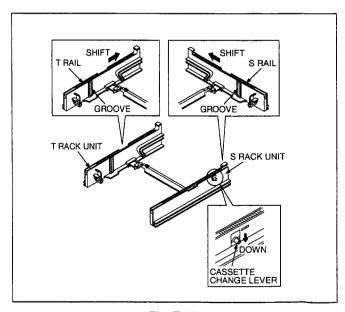


Fig. T-10

Note of installation

Fig. T-10 Shift the S and T Rail on the S and T Rack Unit to makethe Tray down condition.

Fig. T-11 Install the Cassette Holder Unit so that the projection (C) on the Cassette Holder meets the groove on the S and T Rack unit.

2-6. Tray Motor Drive Unit

Unlock 3 locking tabs (B) and remove the Tray Motor Fig. T-12 Drive Unit.

Fig. T-13 Remove the Syncro. Drive Gear, Worm Foil Gear, Worm Gear and Tray Motor.

3. Mechanical Parts

3-1. Head AMP

Fig. M-1 Unscrew 2 screws (E).

Fig. M-2 Slide the Shield Case in up direction and remove the Shield Case.

Disconnect FP5001.

3-2. Pinch Solenoid and Pinch Arm

Unscrew 2 screws (F) and remove Cut Washer. Fig. M-3 Shift the Pinch Solenoid in left direction and remove thePinch Solenoid and Pinch Arm.

3-3. Loading Motor Base

Fig. M-4 Unscrew 5 screws (G) and (H) and remove the Loading Motor Base.

Note of installation

Set the Motor Worm Gear to the Loading Motor Shaft. Fig. M-7 Fig. M-5 Install the Loading Motor Base so that the projection (D)on the Mode SW meets the Hole on the Main Cam Gear.

3-4. Main Cam Gear

Fig. M-6 Remove the Main Cam Gear.

3-5. Main Cam Arm and Motor Worm Gear

Fig. M-7 Remove the Main Cam Arm and Motor Worm Gear. Note of installation

Fig. M-8 Install the Main Cam Arm so that the projection (E) on the Main Cam Arm meets the hole on the Main Rod.

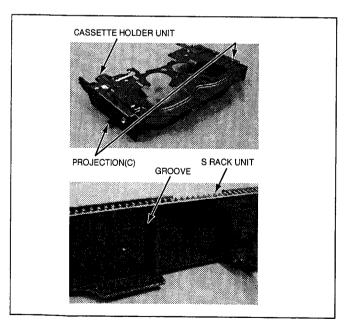


Fig. T-11

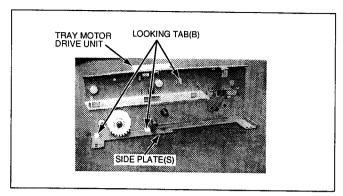


Fig. T-12

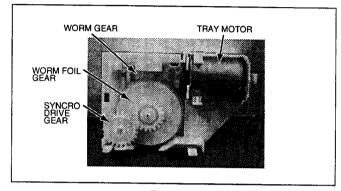


Fig. T-13

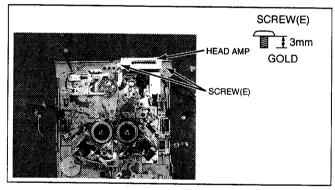


Fig. M-1

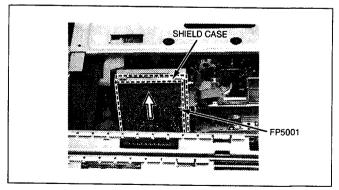


Fig. M-2

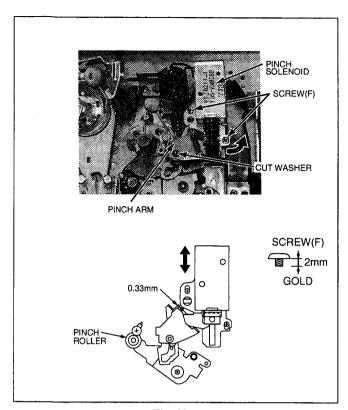


Fig. M-3

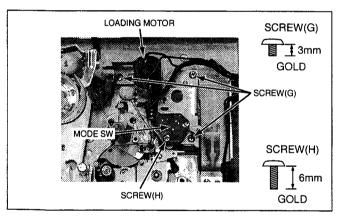


Fig. M-4

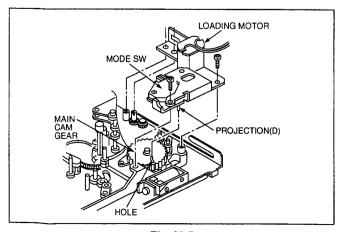


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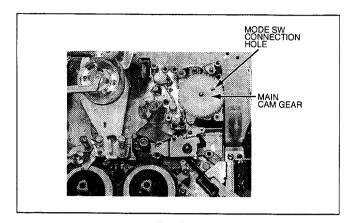


Fig. M-6

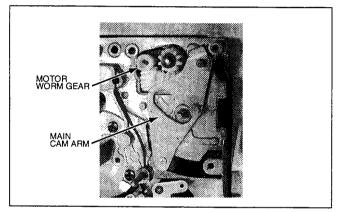


Fig. M-7

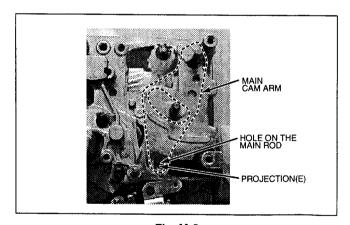


Fig. M-8

3-6. T1 Guide

Fig. M-9 Unscrew 2 screws (1) and remove the T1 Guide.

3-7. Cleaning Arm and T2 Arm

Fig. M-10 Unhook the Cleaning Spring.

Unlock the locking portion of the Cleaning Arm.

Remove the T2 Arm with Spring.

3-8. Cleaning Solenoid Base and Cleaning Solenoid

Fig. M-11 Unscrew 3 screws (J) and remove the Cleaning Solenoid Base.

Fig. M-12 Unscrew 2 screws (K) and remove the Cleaning Solenoid.

Note of installation

Fig. M-10 Adjust the Cleaning Solenoid Base so that the gap between the Cylinder and Cleaning Arm becomes 1.0mm +/- 0.1mm.

Confirm that the Cleaning Roller rotates when the Cleaning Solenoid is turned on in the play mode.

3-9. S-Post Base

Fig. M-13 Unscrew 1 screw (L) and remove the S-Post Base.

3-10. Main Rod

Fig. M-14 Slide the Main Rod and remove it.

When the Cleaning Solenoid Base is not removed; Slightly shift the Cleaning Solenoid Base in direction and slide the Main Rod since the Main Rod is stopped by Cleaning Solenoid Base.

Note of installation

Fig. M-15 Install the Main Rod so that the each drive shaft meets the groove of the Main Rod. To lock the Main Rod, slide it in left direction.

3-11. T4 Sector Gear and Tension Regulator Arm

Fig. M-16 Remove the T4 Sector Gear and Tension Regulator Arm.

Note of installation

Fig. M-17 Install the T4 Sector Gear so that the alignment hole of the T4 Sector Gear is aligned to the alignment gear of the T4 Arm.

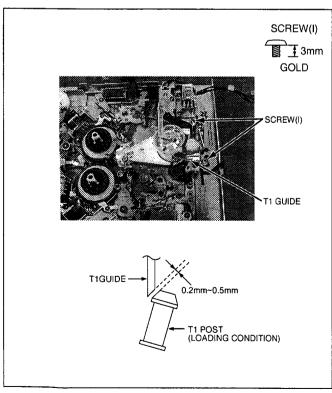


Fig. M-9

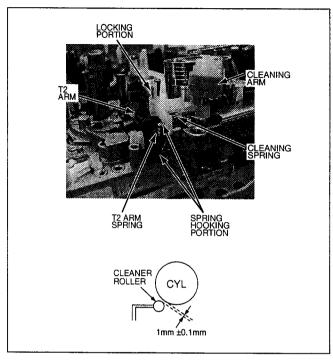


Fig. M-10

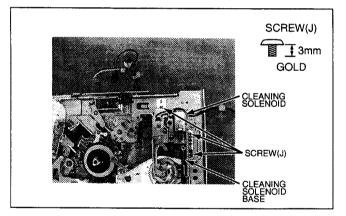


Fig. M-11

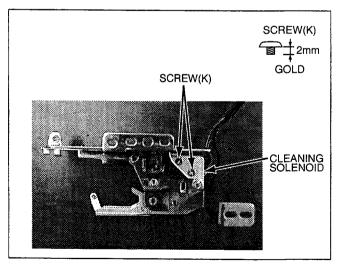


Fig. M-12

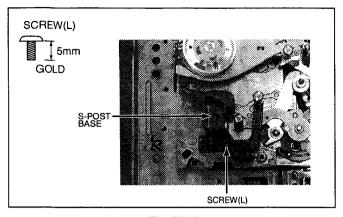


Fig. M-13

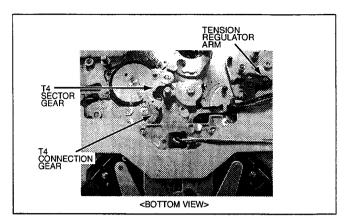


Fig. M-16

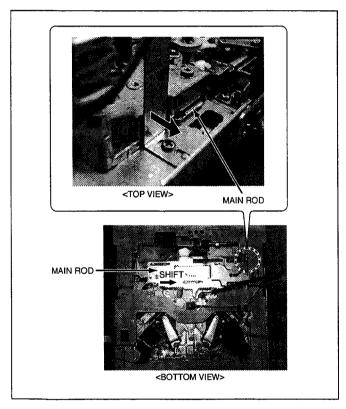


Fig. M-14

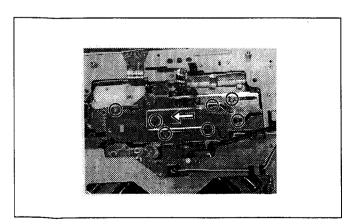


Fig. M-15

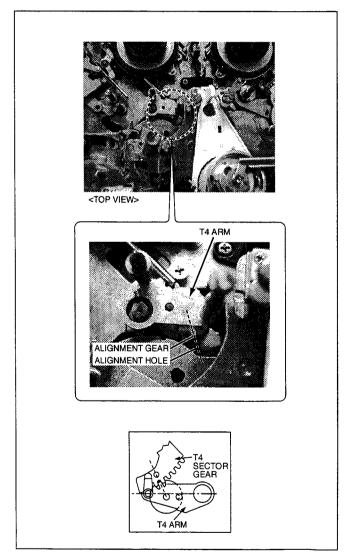


Fig. M-17

3-12. Cylinder Unit

Fig. M-18 Unscrew 4 screws (M) and (N). Then remove the Cylinder Unit carefully.

Fig. M-19 When removing or installing the Cylinder Unit, use extreme care so as not to damage the flexible cable.

3-13. Loading Rail

Fig. M-20 Unscrew 2 screws (O) and (P). Then slightly lift up the Loading Rail and slowly remove the S and T Loading Posts from the top side of the Loading Rail.

Note of installation

Fig. M-20 Install the S and T Loading Posts to the Loading Rail and set the Loading Rail to the chassis. Then install 2 screws (O) and (P).

3-14. T Loading Arm (Post)

Fig. M-21 Remove the E-Ring, washer and T Loading Arm.
When replacing the T Loading Arm, perform the
"Mechanical Adjustment Procedures".

Note of installation

Fig. M-21 Install the T Loading Arm so that the hole on the gear of the T Loading Arm is aligned to the hole on the T Sector Gear.

3-15. Tension Arm

Fig. M-22 Remove the cut washer and unhook the spring, thenremove the Tension Arm.
When replacing the Tension Arm, perform the "Mechanical Adjustment Procedures".

3-16. S Loading Arm (Post)

Fig. M-23 Remove the E-Ring, washer and S Loading Arm.
When replacing the S Loading Arm, perform the
"Mechnical Adjustment Procedures".

Note of installation

Fig. M-23 Install the S Loading Arm so that the hole on the gear of the S Loading Arm is aligned to the hole on the S Sector Gear.

3-17. Tension Regulator Hook and Tension Sensor

Fig. M-24
Unscrew 1 screw (Q) located under the S Brake Solenoid, washer and Tension Sensor.
Remove the cut washer and Tension Regulator Hook.
When replacing the Tension Sensor, perform the "Mechanical Adjustment Procedures".

Note of installation

Fig. M-25 After installed Tension Sensor, confirm the position of the Tension Sensor cable.

3-18. Pinch Arm

Fig. M-26 Remove the cut washer and Pinch Arm with spring. Note of installation

Fig. M-26 Confirm the hooking portion of the spring.

3-19. T4 Arm and T4 Connection Gear

Fig. M-27 Remove the Nylon Nut using tweezers or box driver (2.5mm).

Remove the washer, spring and T4 Arm.

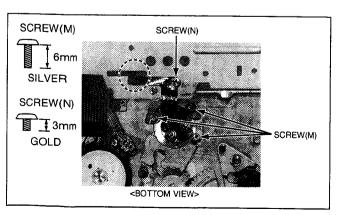


Fig. M-18

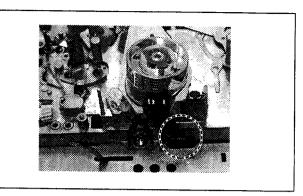


Fig. M-19

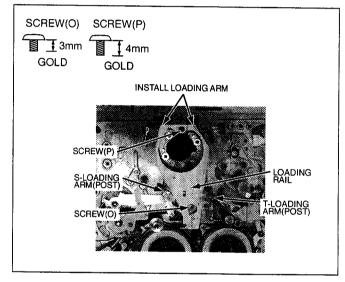


Fig. M-20

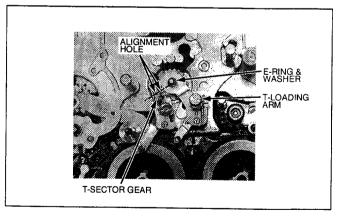


Fig. M-21

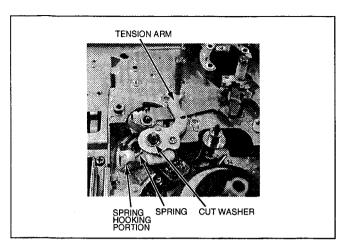


Fig. M-22

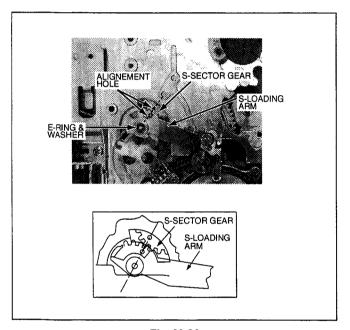


Fig. M-23

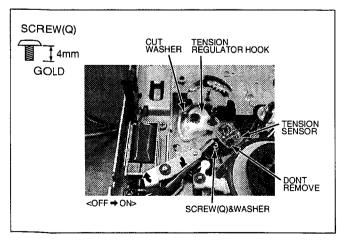


Fig. M-24

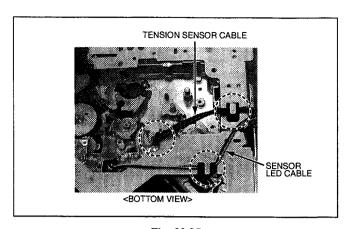


Fig. M-25

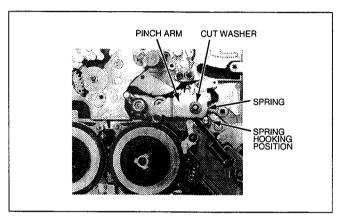


Fig. M-26

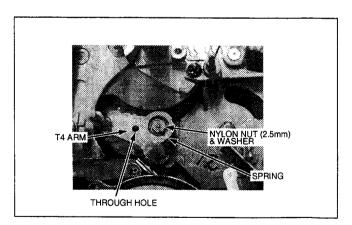


Fig. M-27

Fig. M-28 Remove the cut washer and T4 Connection Gear.

When replacing the T4 Arm and/or T4 Connection Gear, perform the "Mechanical Adjustment Procedures".

Note of installation

Fig. M-28 Install the T4 Connection Gear and cut washer.

Fig. M-27 Install the T4 Arm so that the through hole on the T4 Arm is aligned to the alignment hole on the T4 Connection Gear as shown in Fig. M-28.

3-20. S and T Sector Gear

Fig. M-29 Turn the S and T Sector Gears to clockwise and remove these Gears.

3-21. Gear Holder

Fig. M-30 Unscrew 2 screws (R) and remove the Gear Holder.

Note of installation

Fig. M-30 When installing the Gear Holder, confirm the position of the flexible cable of the Capstan Motor.

3-22. S-Brake Solenoid

Fig. M-31 Unscrew 2 screws (S).

When removing the S-Brake Solenoid, the Tray Connection Rod must be removed because of the connector of the Solenoid is located between the Chassis and Tray Connection Rod.

Note of installation

Fig. M33 Adjust the S-Brake Solenoid so that the gap between the S-Brake and S-Reel Table becomes 0.2 to 0.5 mm (just release).

3-23. T-Brake Solenoid

Fig. M-32 Unscrew 2 screws (T) and remove the T-Brake Solenoid.

Note of installation

Fig. M33 Adjust the T-Brake Solenoid so that the gap between the T-Brake and T-Reel Table becomes 0.2 to 0.5 mm (just release).

3-24. Tape Beginning Sensor (T Sensor)

Fig. M-34 Unlock the locking portion and remove the Tape Beginning Sensor.

3-25. Tape End Sensor (S Sensor)

Fig. M-35 Unlock the locking portion and remove the Tape End Sensor.

3-26. MIC Stopper

Fig. M-36 Unscrew 2 screws (U) and remove the MIC Stopper.

3-27. MIC Connector Unit

Fig. M-37 Unscrew 1 screw (V) and remove the cut washer and MIC Connector Unit.

Note of installation

Fig. M-37 Install the MIC Connector Unit so that the projection (F) meets the hole on the MIC Connector Unit.

3-28. T Reel Table

Fig. M-38 Unscrew 4 screws (W) and remove the T Reel Table with 2 shifts.

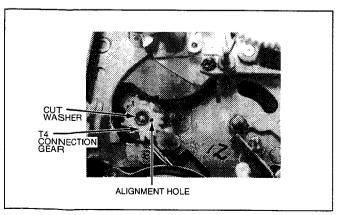


Fig. M-28

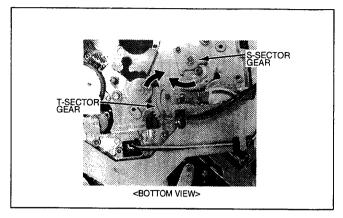


Fig. M-29

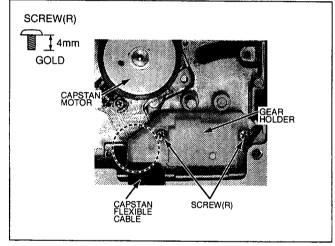


Fig. M-30

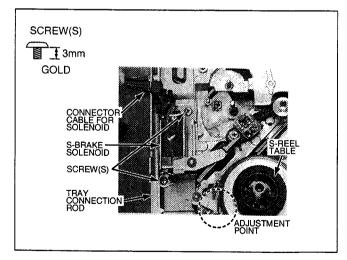


Fig. M-31

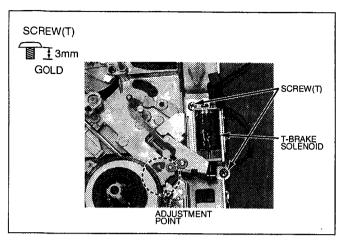


Fig. M-32

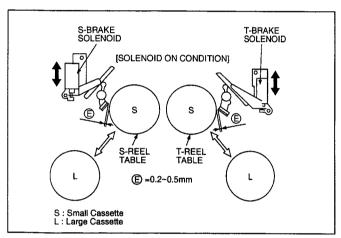


Fig. M-33

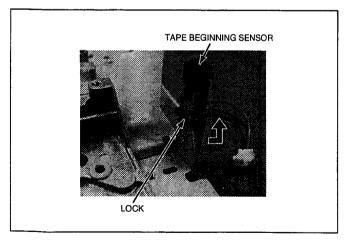


Fig. M-34

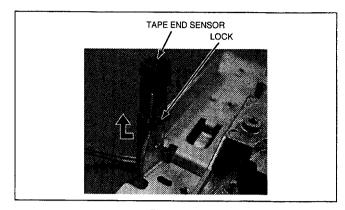


Fig. M-35

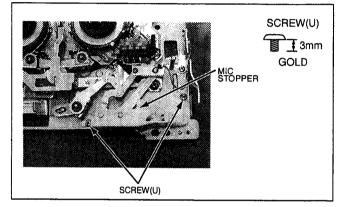


Fig. M-36

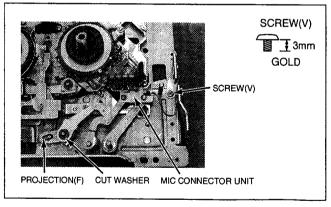


Fig. M-37

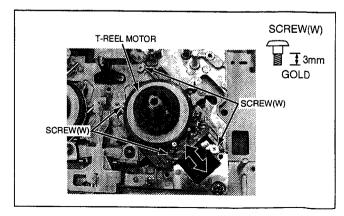


Fig. M-38

Note of installation

Fig. M-40 Set the inner and outer shafts to the T Reel Table.

Fig. M-41/42 Install the T Reel Table with 2 shafts so that the groove under the T Reel Table meets the projection (G) on the T Base Drive Arm.

Then install 4 screws (W).

3-29. S Reel Table

Fig. M-39 Unscrew 4 screws (X) and remove the S Reel Table with 2 shifts.

Note of installation

Fig. M-40 Set the inner and outer shafts to the S Reel Table.

Fig. M-41/42 Install the S Reel Table with 2 shafts so that the groove under the S Reel Table meets the projection (G) on the S Base Drive Arm. Then install 4 screws (X).

3-30. Reel Release Angle

Fig. M-42 Unscrew 2 screws (Y) and remove the Reel Release Angle.

3-31. S and T Base Drive Arm

Fig. M-43 Remove the cut washer, S and T Base Drive Arms.

Note of installation

Fig. M-43 Install the S and T Base Arms so that the projections (H) on the S and T Base Arms meet the groove on the Slide Rod.

3-32. Communication Arm

Fig. M-44 Remove the cut washer and Communication Arm.

3-33. Tray Connection Rod and Lock Gear

Fig. M-45 Pull the Tray Connection Rod in front direction to release the lock and remove it. Remove the Lock Gear.

Note of installation

Fig. M-46 Install the Tray Connection Rod.

Then install the Lock Gear so that the hole on the Lock Gear is aligned to the hole on the Tray Connection Rod.

3-34. Slide Rod

Fig. M-47 Remove the cut washer and Slide Rod.

3-35. Sensor LED

Fig. M-48 Unscrew 1 screw (Z) and Sensor LED.

Note of installation

After installed Sensor LED, confirm the position of the Fig. M-25 Sensor LED cable.

3-36. Capstan Motor

Fig. M-49 Unscrew 3 screws (a) and Capstan Motor.

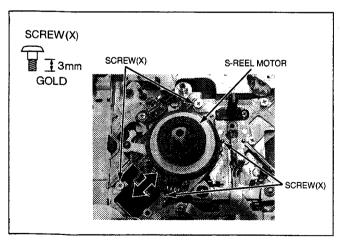


Fig. M-39

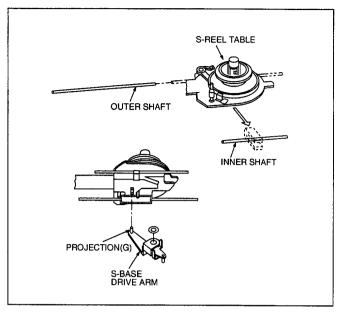


Fig. M-40

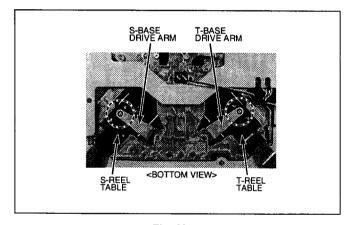


Fig. M-41

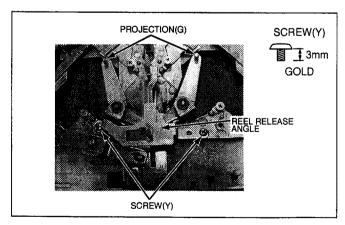


Fig. M-42

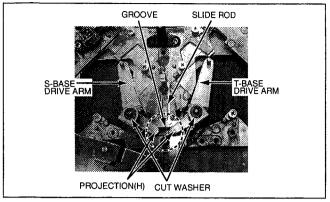


Fig. M-43

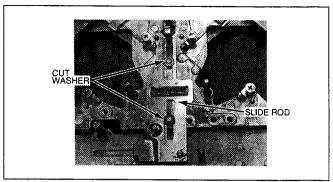


Fig. M-47

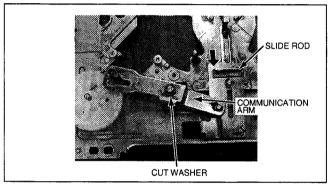


Fig. M-44

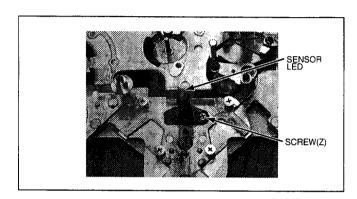


Fig. M-48

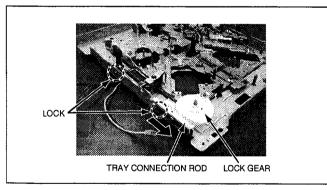


Fig. M-45

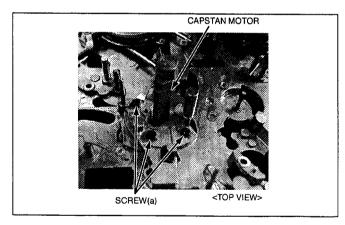


Fig. M-49

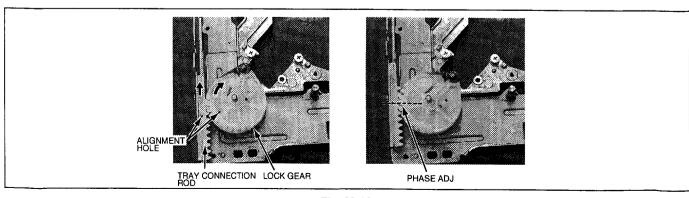


Fig. M-46

4. MECHANICAL ADJUSTMENT

4-1. Name of Tape Transportation

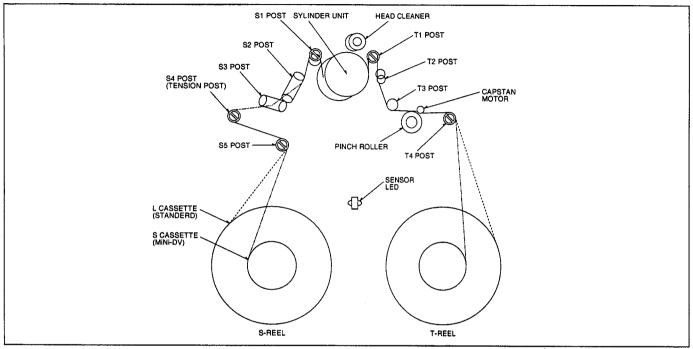


Fig. M-1

4-2. Cleaning Procedures

Make sure the power is off before cleaning. Use ethanol (more than 99% purity) as cleaning liquid.

4-2-1. Cleaning of Video Head

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.

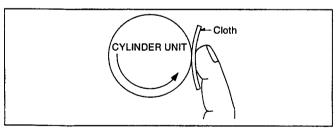


Fig. M-2

4-2-2. Cleaning of Drum Lead

Be careful not to touch a head chip. Clean the drum lead with a pick.

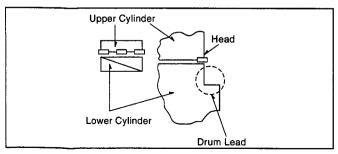


Fig. M-3

4-2-3. Cleaning of Pinch Roller and Capstan

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.

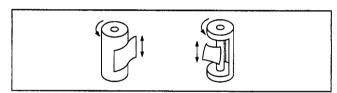


Fig. M-4

4-2-4. Cleaning of each Post

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



Fig. M-5

4-3. Reel Offset and Tension Arm Adjustment

Note

Before beginning adjustment from the item 4-4., the "Reel Offset" and "Tension Arm Adjustment" described on the "5. Electrical Adjustment" must be done as shown in Fig. E-1.

4-4. T4, S4 and S5 Post Height Pre-Adjustment

Note:

Before this adjustment, the Servo Adjustment must be done. (Refer to "SECTION 5. Electrical Adjustment".)

- Confirm the Reel Table is located at L (Standard) cassette position.
 If it is located at S (Mini-DV) cassette position, turn power on and insert L cassette and eject the L cassette.
- 2. Turn power off. Remove the Front Loading Unit. Then place the Mech. Plate (VFK1348A) on the Reel Table.
- Place the Post Height Adj. Tool (VFK1450) on the Mech. Plate as shown in Fig. M-6 and adjust the T4 post height by using the Box Driver (VFK1151).
- Adjust the S4 and S5 post height by using the Post Driver (VFK1278).
- 5. Then turn S4 and S5 posts 1 round counterclockwise from lower limit position.

T4 Post : Lower Limit (-0.5 +/- 0.05 mm) S4 Post : Lower Limit (+0.2 +/- 0.05 mm) S5 Post : Lower Limit (+0.2 +/- 0.05 mm)

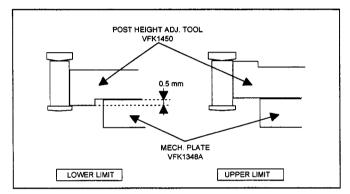


Fig. M-6

4-5. Tape Pass Adjustment Procedures

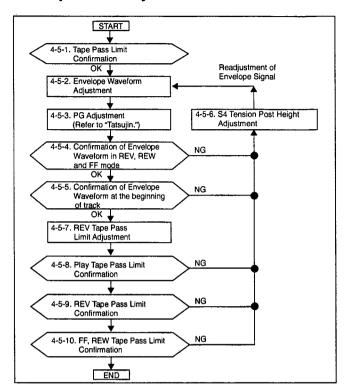


Fig. M-7

- 4-5-1. Tape Pass Limit Confirmation
 1. Place unit into Play mode, and adjust the height of each post do not to occurred tape damage.
 2. Regarding the S1 Post and T1 Post, refer to item "4-5-2. Envelope Waveform Adjustment".
 3. Confirm the tape pass limit of each post as shown in Fig. M-8.

POST NAME			Т	APE LIM	it -			ADJUSTMENT	TAPE PASS LIMIT
	Α	В	С	D	E	F	G	PORTION	TAPE PASS LIVIT
4-5-1. Play Tape Pass L	imit Confirm	ation							
S5 Post	×	×	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	×	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	×	×	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	×	0	×	×	×	×	T4 Post Arm Nut	Free Limit
4-5-7. REV Tape Pass L	lmit Adjustm	ent					1		
S5 Post	×	0	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	0	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	0	0	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	×	0	×	×	×	×	T4 Post Arm Nut	Free Limit
4-5-8. Play Tape Pass L	imit Confirm	ation		1					Tree Cirrin
S5 Post	×	×	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	×	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	×	×	×	×	×	T1 Post	
T4 Post	×		×	0	×	×	×	T4 Post Arm Nut	Envelope Adjustment Free Limit
4-5-9. REV Tape Pass L	imit Confirm						I	THE OST AIM NAT	riee Liinit
S5 Post	×		0	0	×	×	×	S5 Post	1 12 - 12
S4 (Tension) Post	×	-	0	0	×	×		S4 (Tension) Post	Lower Limit
S1 Post	×	- 	×	×	×	×		S1 Post	Lower Limit
T1 Post	×	0	0	Ô	×	×		T1 Post	Envelope Adjustment
T4 Post	×		0	0		×	×	T4 Post Arm Nut	Envelope Adjustment
4-5-10. FF / REW Tape F						_ ^_		14 FOST ATTITIVUL	Free Limit
S5 Post	ASS LIMIT C		ion	0		- V	· ·	05.0	
S4 (Tension) Post	$\frac{1}{x}$		0	0	X	×		S5 Post	Lower Limit
S1 Post	×	Ô	×	×	×	×	×	S4 (Tension) Post	Lower Limit
T1 Post	×	0	^	0	×	×		S1 Post	Envelope Adjustment
T4 Post	×	0	0	0	×	×		T1 Post	Envelope Adjustment
141 031		0	0	0	×	×	×	T4 Post Arm Nut	Free Limit
			acceptab not acce						
A : Curl	B : Upper		C : Fre	e	D : Low	ver	E : (Curl F : Bend	G : Drop

Fig. M-8

4-5-2. Envelope Waveform Adjustment

<Pre-Adjustment>

- 1. Hook up the PC EVR System as shown in Fig. 2-7 (Section 1). Then starts the RF / VITERBI Adjustment in the Video Section.
- Connect the oscilloscope to "Envelope" and "GND" on the Measuring TP Board (VFK1409). Then playback the Alignment Tape (VFM3110EDS) and adjust S1 and T1 posts so that the envelope output is within following specification (Fig. M-9). Use "HID1" as a trigger.

When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.

Adjust T1 post and makes exit side of the envelope flat then adjust S1 post.

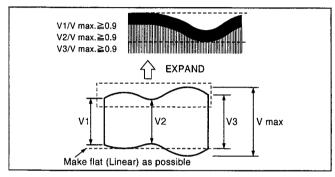


Fig. M-9

<Fine Adjustment>

- Playback the self recorded tape and readjust S1 and T1 posts so that the BER counter number becomes the minimum.
- After adjustment, unload the tape then loading the tape. Then confirm the waveform style and BER counter number is minimized.

4-5-3. PG Adjustment

Since the adjustment procedure for "PG Adjustment" is supported only "PC EVR System", refer to "PC EVR" software.

4-5-4. Confirmation of Envelope Waveform in REV, REW and FF mode

- 1. Hook up the PC EVR System as shown in Fig. 2-7 (Section 1).
- Connect the oscilloscope to "Envelope" and "GND" on the Measuring TP Board (VFK1409).
- Confirm the Envelope Waveform signal is in the specification in the REV, REW and FF mode as shown in Fig. M-10.
- If it is out of specification, after adjusting the "4-5-6. S4 Tension Post Height Adjustment", confirm this "Envelope Waveform in REV, REW and FF mode" again.

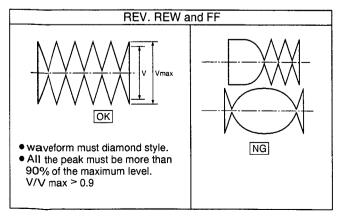


Fig. M-10

4-5-5. Confirmation of Envelope Waveform at the beginning of track

- Observe the Envelope Waveform signal by oscilloscope and confirm the envelope signal is in the specification in the transition from FF to Play, from REW to Play, from REV to Play and from Loading completion to Play.
- If it is out of specification, after adjusting the "4-5-6. S4 Tension Post Height Adjustment", confirm this "Envelope Waveform at beginning of track" again.

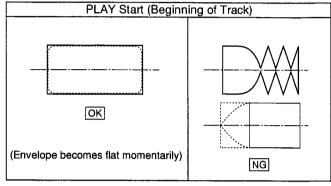


Fig. M-11

4-5-6. S4 Tension Post Height Adjustment

Note

This adjustment should be done when the "4-5-2. Envelope Waveform Adj.", "4-5-4. Confirmation of Envelope in REV, REW and FF mode" or "4-5-5. Confirmation of Envelope Waveform at the beginning of Track" can not be achieved the specification.

- Rotate the S4 Tension Post height 90 degrees counterclockwise from lower limit position.
- Adjust S1 and T1 post height adjustment again. Refer to the "4-5-2. Envelope Waveform Adjustment".
- Confirm the "Play Start Envelope Waveform". Refer to the "4-5-5. Confirmation of Envelope Waveform at the beginning of Track".
- 4. If it is not in the specification, repeat item 1 to 3. The maximum rotation angle is 360 degrees.
- Even the height is still out of specification, confirm the "4-4. T4, S4 and S5 Post Height Pre-Adjustment".

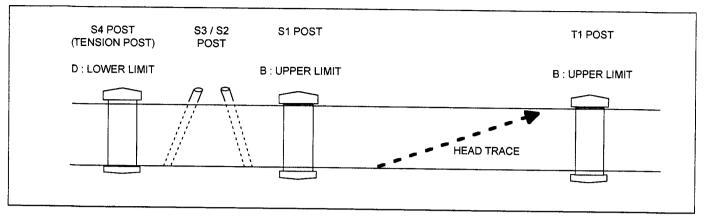


Fig. M-12

4-5-7. REV Tape Pass Limit Adjustment

- Place unit into REV mode, and adjust T4 Post so that the lower limit touches the tape.
- 2. Confirm the tape pass limit of each post as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".

4-5-8. Play Tape Pass Limit Confirmation

- 1. Place the unit into Play mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. Regarding T4 Post, confirm and adjust this confirmation alternately with "4-5-9. REV Tape Pass Limit Confirmation".
- 4. Confirm the tape pass limit for both L and S cassettes.

4-5-9. REV Tape Pass Limit Confirmation

- 1. Place the unit into REV mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- This adjustment should be done alternately with "4-5-8. Play Tape Pass Limit Confirmation".
- 4. Confirm the tape pass limit for both L and S cassettes.

4-5-10. FF, REW Tape Pass Limit Confirmation

- Place the unit into FF and REW mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. Confirm the tape pass limit for both L and S cassettes.

BLOCK, SCHEMATIC, CIRCUIT BOARD DIAGRAMS

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SECTION 3 BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

3-1. ABBREVIATIONS

_	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
 					**
^	A GND	Analogue GND	İ	AILRCK	L/R Clock (to A/D Converter)
	A. COMP	Audio Component Signal		AIMCK	Master Clock (to A/D Converter)
1 1	A. D.P [L]	Audio Dubbing Pause ①	- 1	ALC CNT	Auto Level Control Control
1 1	A. DEF [S]	Audio Defeat		ALC MAIN	Auto Level Control Drive
1 1	A. DUB P [Ĺ]	Audio Dubbing Pause C		ALE	Address Latch Enable
	A. ERASE	Audio Erase		A-LOCK	Full Auto Switch
	A. HASW	Audio Head Amp Switching Pulse		ANLPTH	Analogue Loop Through High
i i	A. HSW	Audio Switching Pulse		AORP	Audio Overlap Pulse
1 1	A. IN [L]	Audio Input (L)		APCNT	Aperture Control
	A. IN [R]	Audio Input (R)		APS	Auto Power Save
ı	A. MUT [H]	Audio Mute (H)		ART. V	Artificial Vertical Sync Signal
	A. MUTE [H]	Audio Mute 🕀		ART. V. MM	Artificial Vertical Sync Signal Mono Multi
1	A. OUT [L]	Audio Output (L)		ART. V/H/N	Artificial Vertical Sync Signal (H/Normal
	A. OUT [R]	Audio Output (R)		AT. V/H/N	Artificial Vertical Sync Signal
ı	A. RF OUT	Audio RF Signal Output		ATSW/TEST/NOR/SE	Test/Normal/Service
1	A. TR	Auto Tracking		AT CNT	Automatic Tracking Gain Adjust
	A0-8, 0-17	Memory Address		ATF	Automatic Track Finding
	A3V2	AD Converter Reference Voltage		ATFCLK	41.85MHz Clock
1	AB0-4	Address Bus		ATFG	Auto Track Gain
	AB0-4, AB12-15	Address Bus Line 0-4, 12-15		ATL	Auto Lock Select
	ABSF	Focus Encoder Input		ATN	Absolute Track Number
1	AC. O/EE. H	AC Online/EE (H)		ATR OFF(H)	Auto Tracking Off (H)
1	ACI	Analogue Channel Cording IC		ATV	Advanced TV
1	AD	AD Converter		AUDIO SELECT [H]	Audio Select (H)
1	AD	Auto Date, Analogue Digital Converter		AVDD	Analogue VDD
	ADCLK	AD Clock		AVSS	Analogue Ground
1	ADREC	Audio Delayed REC		AWTB	Auto White Balance B-Y
	AD0-6	Address		AWTR	Auto White Balance R-Y
1	AD0-6, ADR0-6	Address Data Line	l		Title Wille Balance II
	ADCLK	Analogue Digital Converter Clock	В	B MODE, H	B Mode (H)
	ADCNT	Analogue Digital Control		B.G.P	Burst Gate Pulse
	ADCS	Analogue Digital Chip Select		BACK	Back-up
	A-DET	Audio Detect		BACK UP	Microcomputer Back-up
	ADREC	Audio Delaied Rec	l	BACK VDD	Back-up Power
1	ADUB	Audio Dubbing	ĺ	BATT	Battery
1	AE	Auto Expose	l	BATT ALARM	Battery Alarm
,	AECNT	Auto Expose Control		BATT REF	Reference Voltage for Battery
1	AEE(H)	Audio E-E (H)		ВСВ	B Carrier Balance
	AEH	Audio Erase Head		BCBM(B-Y)	B-Y Carrier Balance
	AEIRQ	Auto Expose Interrupt Request	1	BCBM(R-Y)	R-Y Carrier Balance
İ	AF DIS CS	AF DIS Chip Select	ĺ	BD0-7	REC/Play In/Out Buss
	AFCSC	AFC S Curve	l	BDCK	Standard Bus Data Clock (9MHz)
	AFC [S]	AFC S Curve		BDEN	Standard Bus Data Enable
	AFC. DEF	AFC Defeat	l	BEND	Data Block End Request
	A-FADE(L)	Audio Fade (L)	1	BF	Burst Flag Pulse
	AF-AMP	AF HALL Bias		BFA	Burst Flag Pulse for Encorder
	AFCS	Auto Focus Chip Select		BFO/BFI	Burst Flug Input/Output
1	AFRP	Audio PLL Voltage Control		BI, BO	Buffer Input, Output
	AGC	Automatic Gain Control	1	BI/MI [L]	Bilingual/Mix ①
1	AGCCNT	Automatic Gain Control Automatic Gain Control	1	BIL	Bilingual
	l .	Analogue Ground/Audio Ground		1	Bilingual (L)
	AGND	1 *	1	BIL [L]	
	AGS	Anti Ground Shooting	1	BL ON	Back Light
1	AH(P) / (R)	Audio Head (Play) / (Record)		BL ON	Back Light ON (L)
1	AHASW	Audio Head Amp Switch Pulse		BL4V	Back Light 4V
	AHSW	Audio Head Switch Pulse	1	BLC 0, 1	Back Light Y Control Out, In
1	AI, AO	Buffer Input, Output	1	BLDI/O	Back Light Drive Input/Output
	AIBCK	Bit Clock (to A/D Converter)	1	BLK	Blanking Pulse
İ	AIDAT	Serial Data (to A/D Converter)		BLKA	Blanking for Encorder

	INITIAL/LOGO	ABBREVIATIONS	INITIAL/LOGO	ABBREVIATIONS
	BLKA	Blanking Pulse for Encorder	CH1	Channel 1 (Odd Field)
	BLKI/O	Blanking Pulse In/Out	CHR	Character
	BLKZ	Blanking Pulse for Zoom Encorder	CHR BACK	Character Back-up
	ВМ	Balance Modulator	CHR MIX	Character Mix
	BQUIET	Bus Out Control Signal	CI, CO	Buffer In/Out
	BS CLOCK	BS Clock	CI,CO	Buffer Input & Output
1	BS DATA	BS Data	CIF	Control Signal Forward Input
1	BS LCH IN	BS L Channel Input	CIF, CIR	Positive Control Pulse, Negative Control Pulse
	BS MIX [H]	BS Mix (H)	CIR	Control Signal Reverse Input
1	BS MONI [H]	BS Monitor (H)	CK	Clock
	BS MONI [H]	BS Monitor (f)	CKL	Ratch Lock
	BS RCH IN	BS R Channel Input	CKS	Shift Lock
	BUF IN/OUT	Buffer In/Out	CL/CLK	Clock
	B-Y KB	B-Y Carrier Balance	CLASS	Classeffication Signal for Compress (DCT/VLC)
	B-YO	B-Y Signal Out	CLASS 0.1	Class Control Signal Durring DCT/VLC
			CLK135	13.5MHz System Clock
	C A In/Out	Pre-Aperture In/Out	CLK18	18MHz System Clock
	CAPSTP	Capstan Stop Flag	CLK2	Clock 2 (824XFH: 12.875MHz)
	C CNT	Colour Control	CLK246	24.576MHz Clock
	C SYNC	Composite Sync Signal	CLK27	27MHz System Clock
	C/N C0-7, C00-07	Carrier/Noise	CLK450	450KHz Clock
	CG-7, COU-O7	Chrominance Signal 0-7	CLKDCLK	Digital Clock
1 1	CAGAIN CAM TL	Aperture Gain Control	CLK-PH	Clock Phase Control
	CAP EC	Capstan Traus Control	CLK-REF	Reference Clock
	CAP M GND	Capstan Trque Control Capstan Motor GND	CLP-RST-H	Clamp Reset High Signal
	CAP P(H)	Capstan Power On (H)	CLY FG	Cylinder FG Signal
	CAP R/F/S	Capstan Reverse (H)/Stop (M)/Forward (L)	CMEMO0-3	Chroma Memory Output Signal 0-3
	CAP SW	Capstan Power Control Switch	CMIX	Character Mix
	CAP. ET	Capstan Torque Control	COL/B/W/NOR	Chrominance Memory Output Colour/Black & White/Normal
	CAP. FG1	Capstan FG1 Pulse	COLOR [H]	Colour (H)
	CAP. FG2	Capstan FG2 Pulse	COMPC	Position Detection Pulse
	CAPSTP H	Capstan Stop Flag (Stop High)	COM RDY	Serial Enable Signal
	CAPVM	Capstan Motor Current	CNCLK	Clock
	CAPVS	Capstan Motor Power Control Switch	CNR	Chrominance Noise Reduction
	CAS. SW	Cassette SW	CNT, CONT	Control
	CAS	Compresion, Audio Process, Shuffling/Deshuffling	co	Control Out
	CAS	Memory Address Strobe (Active Low)	CO0-7	Chrominance Output 0 to 7 (Digital)
1 1	CASDOWN, DWN	Cassette Down (L)	СОМ	Common
	CB, CR	Chroma B, Chroma R	COM RDY	Serial Transmission Enable
	CBLK	Composite Blanking Pulse	COMB	Comb Filter
	CC	Channel Cording	COS EQ	Cosin Equalizer
	CCA CCA	Curent Drive Control	CP	Clamp Pulse
	CCD	Charge Coupled Device	CP ON(H)	Camera Power On(H)
	CCM	Charge Coupled Devise	CP2, 20	Clamp Pulse
	CD SP0-7	Counterclockwise Digital Chroma	CP2A, CP2O	Encoder Clamp Pulse
	CDS-G/		CPN	Component Signal
	CDS1, 2	Correlate Double Sampling Signal Sampling Pulse for CCD Output Signal	CPOB	Clamp Pulse for Optical Blanking
	CE CE	Chip Enable	CPS	Composite Signal
	CE	Control Pulse Erase	CPV CR OUT	Gate Scan Clock
	CEC	Capstan Error Code	CR POW SW	Pre Apature Out
	C-ERA(H)	Control Erase (H)	CR POW SW	Camera Remote Power On Switch Aperture Gain Control
	CFEM	Chrominance Memory Signal	CRA	1 ·
	CFM	Chrominance Field Memory	CS	Pre Apature Gain Control Chip Select
	CFM1-4	Chroma Field Memory Signal	CS 0-7	Chip select Chrominance Signal Out 0-7
	CG CLK	Character Generator Clock	CSEL	Clock Phase Select
	CG CLK DATA	Clock Generator Data	CSI 0-7	Chrominance Signal In 0-7
	CG DATA	Character Generator Data	CTSW	Crosstalk Switch
	CGC	Chrominance Gain Control	CURR	Current
	CGCS	Character Generator Chip Select	CURRENT LIM	Current Limmiter
	CGO	Character Generator Serial Data	CW	Clockwise
	СН	Charge	CYL ET	Cylinder Motor Trque Control
			_	-,

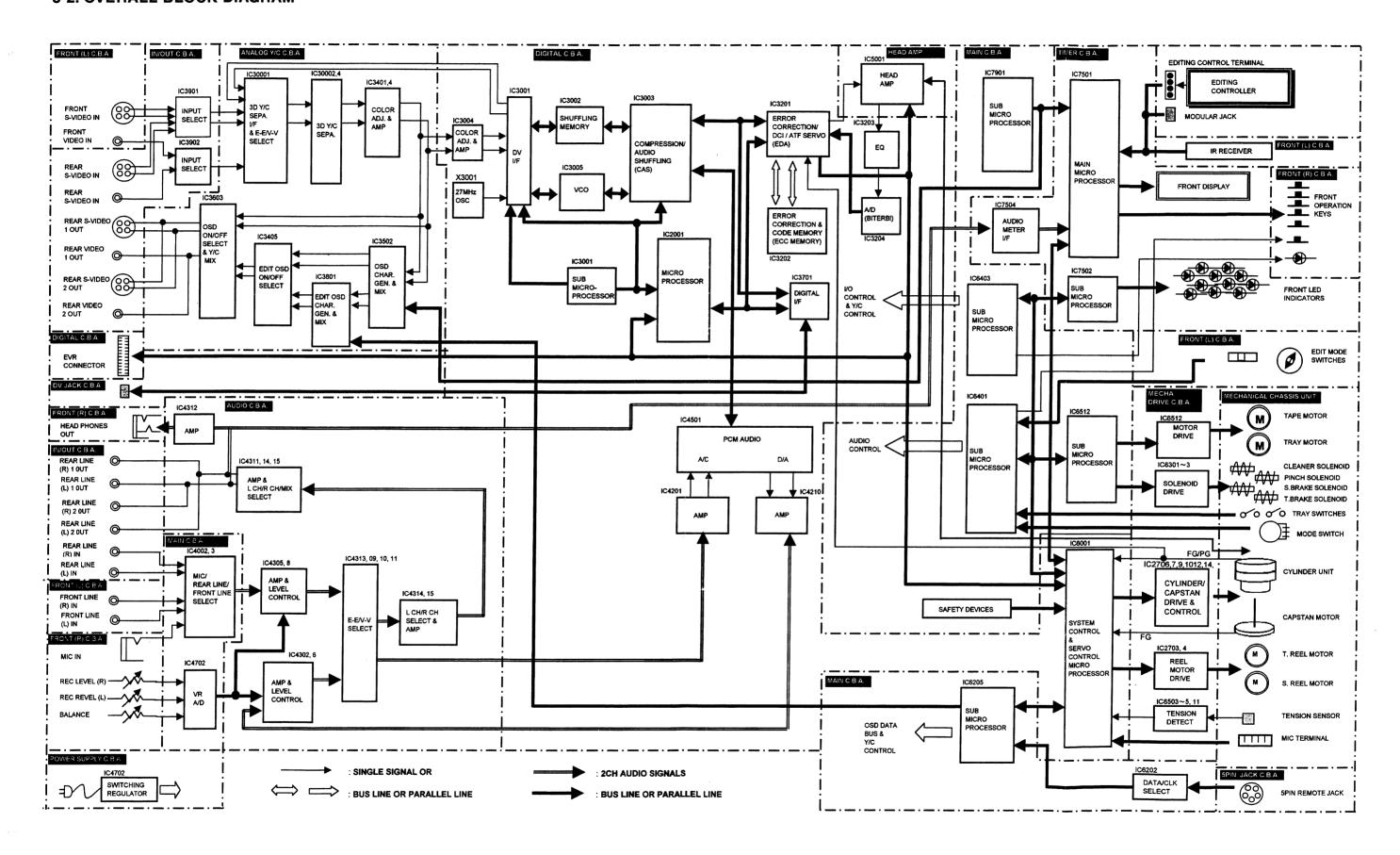
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	CYL PG	Cylinder Motor PG		DSF 0-7	Input/Output Data to Shuffling Memory (18MHz)
	CYL VM	Cylinder Motor Current or Power		DSP	Digital Signal Processor
				DSP R/B	DSP IC Rady/Busy
D	D CLK	Digital Clock		DSP-48K-H	DSP IC Clock Select
	D MODE	Digital Mode Switch Signal		DSTB	Data Stobe Signal
	D. FM REC [H]	Delaied FM Recording (H)		DSV	Digital Sum Variation
	D. FM REC [L]	Delaied FM Recording ①		DV	Digital Video
	DA UV SEL	D/A Convertor U/V Select		DVB	Digital Video Broadcast
	DAC	Digital Analogue Converter		DVC	Digital Video Cassette
	DAG	Digital Analogue Ground		DVDD	Digital VDD
	DB0-7	Data 0-7		DVIO	Digital Video Input Output
	DB0-7	Microprocessor Data		DVSS	Digital GND
	DCC	DC Clamp Control			Jigial Gitz
i I	DCCNT	DC Control	E	E2 CS or E2P CS	EEPROM Chip Select
	DCI	Digital Channel Cording IC	-	E2 R/B	EEPROM Rady/Busy
	DCLR	Digital Clear		E2P	EEPROM
	DCP	Digital Clamp Pulse		EARP	Earphone
	DCS-CLK, DA	CAS & DV I/F Serial Clock		EC	Torque Control
	DC-STP1	DCS Serial Start		ECC	Error Correction Cording
	DC-STP2	DCS Serial Stop		ECM	Electric Condencer Mic
	DCT	Discrete Cosine Transform (Compression)		ECR	Reference Voltage for Capstan Torque
	DCX7	Serial Data		EDA	
	DEDP 0-3	Playback Data		EDT TRIG [L]	Error Correction, DCI, ATF Servo
	DEDR 0-3	Rec Data		EDIT [H]	Edit Trigger (L)
	DEMO	Demodulation		" -	Edit (f)
	DEMP	A/D Convertor Empahsis Control		EE (H) EE CS	EE (H)
	DEMP	De-Emphasis		EE R/B	EEPROM Chip Select
1	DFD 0-7	Encode Data In/Out Between Shaffling Memory	ľ	EEPROM	EEPROM Read (H)/Busy (L)
1	DFD0-7	Encode Input/Output Signal for Shuffling Memory		EIS	Electric Erasable Programable Read Only Memory
	DIBDCK	Bit Clock		EMP	Electric Image Stabilizer (DIS)
	DICLK	Digital Clock			A/D Convertor Emphasis Control
	DIDAT	Serial Data		ENAB ENV	Enable
	DIDAT	Serial Data Durring Digital Audio In		EOB	Enverope
	DIF	Digital Interface			End of Block
	DILRCK	L/R Clock		EP [H] EP/LP [H]	LPM LPM
	DILROK	Serial Clock Durring Digital Audio In		EP/LP/SP	1
	DIMCK	Master Clock		· '	LP/SP
	DIMCK	Mater Clock Durring Digital Audio In		EP/SS [H] EPROMCS	LP/Slow/Still/Stop (f)
1	DIO 1-8	Data In/Out		1	EPROM Chip Select
	DIOS	Data In/Out Select Control Signal	ŀ	EQ	Equalizer
1	DIOS	Select Signal for Digital In/Out		EXT S DATA	Serial Data for Edit
	DIS	Digital Image Stabilizer		EXT SCK	Serial Clock for Edit
1	DIS R/B	Digital Image Stabilizer Read (H)/Busy (L)	_	FACTMODE	Forten Market (c.)
1	DIS R/B	DIS IC Rady/Busy	F	FACT MODE	Factry Mode (not used in the service)
	DIS/KAND	Digital Image Stabilizer/Sensitivity	ļ .	FB FC	Feed Back
	DISCS	Dis Chip Select		i .	Saw Tooth Signal In
1	DISP	Dis Chip Select Display	1	FCK	Clock
1	DL	1	l	FCO	Saw Tooth Signal Generator
	DOBCK	Delay Line Audio A/D Convertor Bit Clock		FEND	Frame End Pulse
	DOCTL	Audio A/D Convertor Bit Clock Data Output Control Signal		FF/REW [L]	First Forward/Rewind ©
	DODAT	, ,		FG1 IN	FG1 Pulse input
		Serial Data (to D/A Converter)		FG2 IN	FG2 Pulse Input
	DOLRCK	Audio A/D Converter LR Clock		FH2B	FH/2 (15.625KHz / 2=7.8125KHz)
1	DOLRCK	L/R Clock (to D/A Converter)		FIX OSD	Auto Tracking Off (H)
	DOMCK	Audio A/D Converter Master Clock		FLICK	Flicker Output
	DOMCK	Master Clock (to D/A Converter)		FLY ERASE [H]	Flying Erase Head On (H)
	DQ 1-16	Memory Data		FM	Field Memory
1	DRAM CAS	D-RAM Colum Address Strobe	[FM MUT (H)	FM Audio Mute (H)
	DRAM OE	D-RAM Out Enable	I	FM MUTE [H]	FM Audio Mute (H)
	DRAM RAS	D-RAM Read Address Strobe	1	FM0-7	Field Memory 0-7
1	DREC	AV Delayed REC Start Pulse		FMCO0-3	Field Memory Chrominance Out 0-4
1	DRK	Dark (LPF Switch for Auto Focus)		FMDIR	Focus Motor Direction
	DS1, 2	Double Sampling Pulse		FMOEM	Field Memory Enable
	DSF 0-7	Data In/Out for Shaffling Memory	1	FMOEO	Field Memory Enable

	INITIAL/LOGO	ABBREVIATIONS	Т	INITIAL/LOGO	ABBREVIATIONS
	FMT1-4	Focus Motor Terminal 1-4	\top	ITI	Insert & Track Information
	FMY00-07	Field Memory Luminance Out 0-7			moert a reactimomation
	FMYI0-07	Field Memory Luminance In 0-7	J	JPEG	Joint Photographic Image Cording Experts Group
	FNO	F Value			Total Manager of Griding Experts Group
	FPS	Frame Refference Signal	K	KANDO	Digital Gain Up
	FR	Capstan Reverse High		KB	Carrier Balance
	FRP	Frame Refference Pulse		KEY IN	Key Scan
	FRPSO	Frame Start Pulse		KND	Digital Gain Up
	FUL. E [H]	Full Erase Head On 🕀		KNEE	Luminance Compensate
	FULL. E (H)	Full Erase Head On (H)			· ·
			L	LD	Load Pulse
G	G1, G2, G3	Gap 1, 2 and 3	7	LEDCNT	LED Control
	GCA	Gain Control AMP		LI-BATT	Lithium Battery
	GCNT	Gain Control		LOAD	Loading
	G-CNT	AGC Adjustment		LOAD F, R	Loading Direction (F: Forward / R: Reverse)
	GCTRL	Gain Control	1	LPF	Low Pass Filter
	GENE	Generator	1	LRMONO	Monoral Audio (L + R)
	GF	FG AMP Terminal	1	LSB	Least Significant Bit
	GSW	Ground for Switching Power	1	LVL	LPF Switch for Auto Focus
H	11/14/11		_		
Н	H/M/N	Hi-Fi / Mix / Normal	М	M GND	Motor GND
	H/N	Hi-Fi / Normal	1	M1-3	Motor Coil Terminal 1 to 3
l	H. SYNC	Horizontal Sync	1	MA0-5	Microprocessor Address Data 0-5
	HAP	Horizontal Aperture		Mbps	Megahertz Bit Per Second
	HASW HB	Head AMP Switching Pulse		MD	Modulation
1	HBR SET	Hall Bias		MD0-7	Microprocessor Data 0-7
	HBRST	High Brightness Set	1	MDT0-7	Microprocessor Data 0-7
	HCLR	High Brightness Set		ME (TAPE)	Metal Evaporated (Tape)
	HCP	High Clear Shift Clock for Horizontal Drive	İ	MES [H]	Mesecam (H)
	HD	Horizontal Drive Pulse		MESE [H]	Mesecam (H)
	HDTV	High Definition TV	1	MESE [L]	Mesecam (L)
	HEX	Hexadecimal	1	METER 5V	Level Meter 5V
	HG	Hall Gain		METER (L)	Level Meter (L)
	HID	Head Switching Pulse	1	METER (R)	Level Meter (R)
	HLT	High Bright Signal		METER. L/AVS METER. R/AVS	Level Meter (L)
	HALL IN(+), (-)	Input Signal from Hall IC	1	MHSYNC	Level Meter (R)
	HP	Headphone		MI/BI [L]	Monitor Horizontal Sync Signal MIX (B)/Biligual
	HPF	High Pass Filter	1	MIC	Memory In Cassette
	HSE	Modulated Data Output		MIG	Meta In Gap
	HSP	Timing Pulse for Shaffling Memory		MIX N.R.D.	Non Rec Data Mix
	HSS	Horizontal Sync Signal		MOD	Modulation
	HSW	Head Switching Pulse	1	MODE SEL	Audio Mode Select
		_		MODE SW	Audio Mode SW
1	VF	Interface	1	MONO [H]	Monaural (f)
	⊩2 C	Inter Integrated Circuit	1	MOUT	Mic Out
	ID(H)	Wide Television (H)		MP (TAPE)	Metal Particle (Tape)
	IMP	Inter Microprocessor Protocol	l	MSB	Most Signal Bit
	IN SELA1	Input Select A1 Position	L		
	IN SELA2	Input Select A2 Position	N	N/P	NTSC/PAL
	IN SELA3	Input Select A3 Position		NB1-3	Base for NPN Transistor
	INS L/R [L]	Insert Lch/Rch L		NC	No Connection
	INS. [H]	Insert (H)	1	NC1-3	Corrector of NPN Transistor
	INTER	Interval Recording		NCLR	Power On Reset
	INV	Inverter		NCP1	Clamp Pulse
	IOU	R-Y Analogue Signal Output		NDE	Non Liner De-Emphasis
	IOV	B-Y Analogue Signal Output		NE	Emitor of NPN Transistor
	IOY	Y Analogue Signal Output		NLE	Non Liner Emphasis
	IR	Infrared Rays		NR	Noise Reduction
	IRDET	Imfrared Ray Detection		NRD	Non Rec Data
1	IREF	Current Adjustment Terminal		NRD BLK	Non Rec Data Blanking
		Iris / Shutter Control		NDD OLK	later and a second
	IRIS/SH IRQ	Interrupt Request		NRD CLK	No Rec Data Clock Read Enable Input (Low Active)

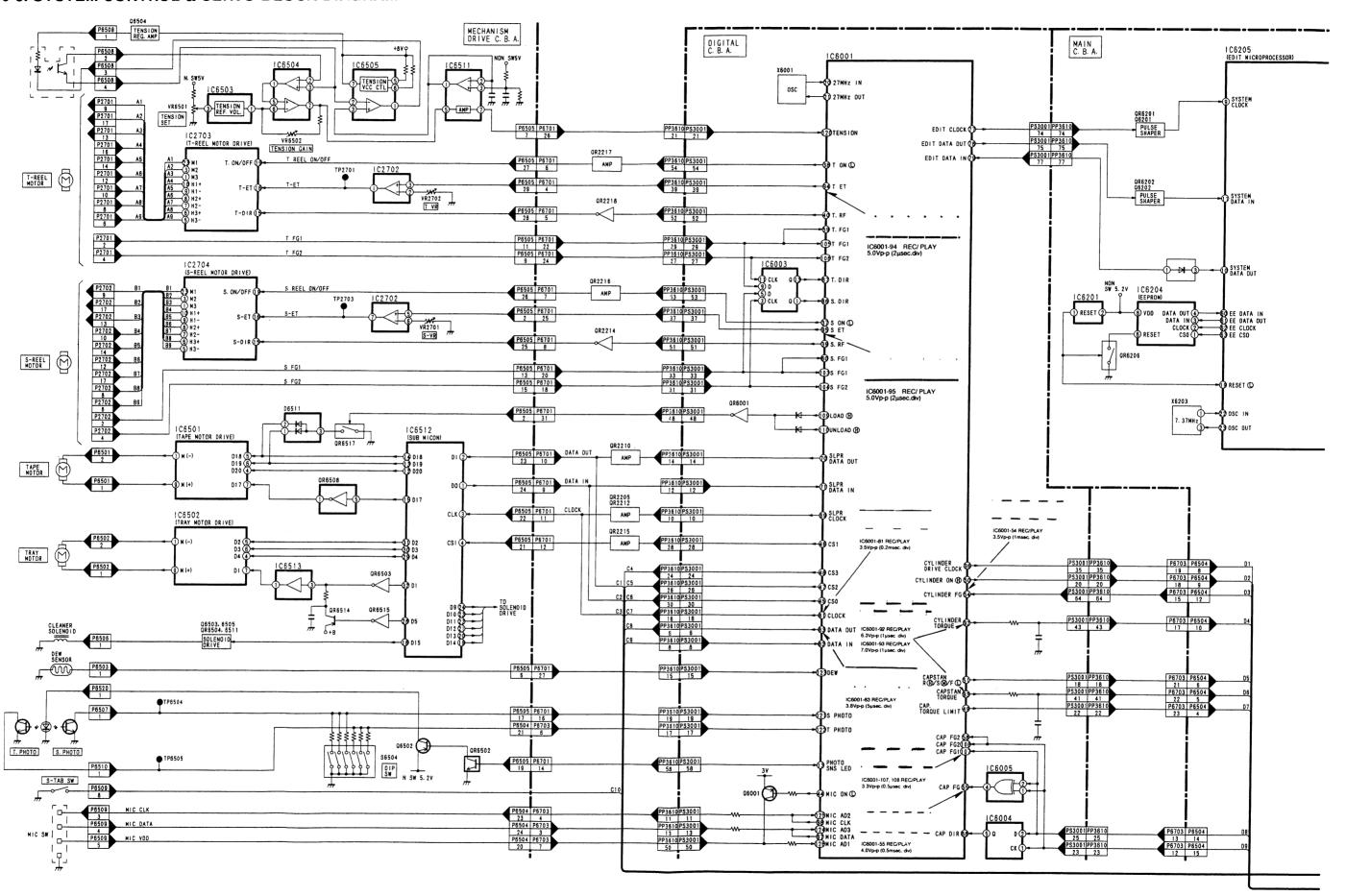
Ţ	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
4 I	NWE	Write Enable (Low Active)		R-B	R Bias
		, ,		RCB	R Carrier Balance
0	ОВ	Optical Black		RE	Read Enable
	OBCNT	Optical Black Control		RE(F), (S)	Rotary Erase Head Transformer
	OBREF	Reference Voltage for Optical Black Control	1	REB	R Bias
	OCH	Control AGC Circuit		REC CC	Rec Current Control
1	OE	Output Enable		REC CONT	Rec Current Control
1	OFH	Horizontal Counted Down Clock Signal (Reference)		RECCTRL	Recording Control Pulse
1	OFS	Offset		RECI	,
1	OP	Operation AMP Output		RENCF	Rec Amp Switch
1	OSD	ON Screen Display			Lens Control (Forward)
1	OVL	Overlap Pulse		RENCR	Lens Control (Reverse)
	OVL	Overlap Fulse		RERASE	Rotary Erase Head
P	P. FAIL	Power Failure Detect		RF. CHROMA	RF Chrominance Signal
	P. OFF [H]	1		RGBIV1-2	1V Inverted Signal 1-2
1		Power Off (f)		RGO R/G OFF	Offset Voltage for AWT R
1	P. OFF [L]	Power Off ①		RSF	Capstan Direction (Reverse / Stop / Forward)
	P SW	Power Switch		RST	Reset
	PB1-3	PNP Base 1-3		RSTB	R Strobe
	PBCTL	Play Back Control		RSTPWD	Reset Power Down Input
	PBCTL	Pre-Branking Control		RSTR	Reset Read
	PBH	Head Amp Switch		RSTW	Reset Write
	PBLK	Pre-Blanking (Pulse)		RT	Saw Tooth Terminal
	PC1-3	Corrector of PNP Transistor		RVCO	Resister for Oscillation
	PCBM	Carrier Balance		RW	Read Write
1	PCH	Phase Compensator (Hall AMP)		RWAE	Read Write Enable
il	PCI	Phase Compensator (Current)			
1	PC0	Phase Compensator Out	S	SIN	Serial Data Input
	PCS	Switching Power Control		SOUT	Serial Data Output
	PCV	Phase Compensator (Voltage)		S-PHOTO	Supply Photo Transistor
1 1	PE	Emitter of PNP Transistor		S-RL. PLS	Supply Reel Pulse
	PED	Pedestal		S. CLK	Serial Clock
1 1	PEDECNT	Pedestal Control		S. CLK/AV	Serial Clock/AV
1 1	PENO	Alarm (L)		S. DATA	Serial Data
1 1	PFP	Pilot Frame Position		S. TAB [L]	Safety Tab SW ON (L)
	PGA, B	Power Ground A, B		S/H	Sampling Hold
1 1	PG C	Pulse Generator Comparator		S/PIN	SECAM/PAL/NTSC
1	PGI	Pulse Generator Input		S/S	Start/Stop
	PGMM	Pulse Generator Monostable Multivibrator		SBD	Serial Data
	PG0	Output of Pulse Generator AMP		SBI	Serial Data Input
1 1	PMODE	Select Signal for Normal / Wide Screen		SBO	Serial Data Output
	PON	Power On		SBT	Serial Clock
	POR	Power On Reset		SCIN	Serial Clock Input
	POSCOM	Common Position		SC OUT	Serial Clock Output
	PREAMP	Pre-AMP		SCAN0-5	Key Scan 0-5
	PREBLK	Pre-Blanking		SCK SCK	Serial Clock
	PT	Protect for V Voltage		SCK SELECT	
	PWM	Pulse Width Modulation		SCR	Serial Clock Select
	PWMB	Pulse Width Modulation Pulse		SCR. S.C.R.	Search
	PWRFAIL	Power Failure Detect		. ,	Still Cue Review
	THE ALL	1 GWEI I GIIGIE DELECT		SEG.	Segment
	Q2H	Source Output Colort		SET	White Balance Set
ا ۲ ا	U∢Z⊓	Source Output Select		SH/IRIS	Shutter/Iris Control
닍	D OTL D	Boarded Control Britania	l	SHIFT	Capasitor for Phase Shift
R	R CTL P	Recorded Control Pulse (+)		SI	Serial Data Input
	R CTL R	Recorded Control Pulse (–)		SIC	Shift In Clock Input
	R/B	Read/Busy		SIF	Sound Intermediate Frequency
	R/L	Direction Control for Data Transmition		SIOC	Serial In/Out Control
	R/S/F	Reverse (H)/Stop (M)/Forward (L)		SMCE	Shaffling Memory Chip Enable
	RA	Recording AMP		SMRS	Shaffling Memory Read Strobe
	RA1	Rec AMP 1		SMWE	Shaffling Memory Write Enable
	RAC AC	Rec Audio Current	ļ	SMWS	Shaffling Memory Read Strobe
				I	3
	RAD	Read Address Data	1	SNAP	Snap Shot
	RAD RAE	Read Address Data Read Address Enable		SNAP SNS LED	Snap Shot Sensor LED

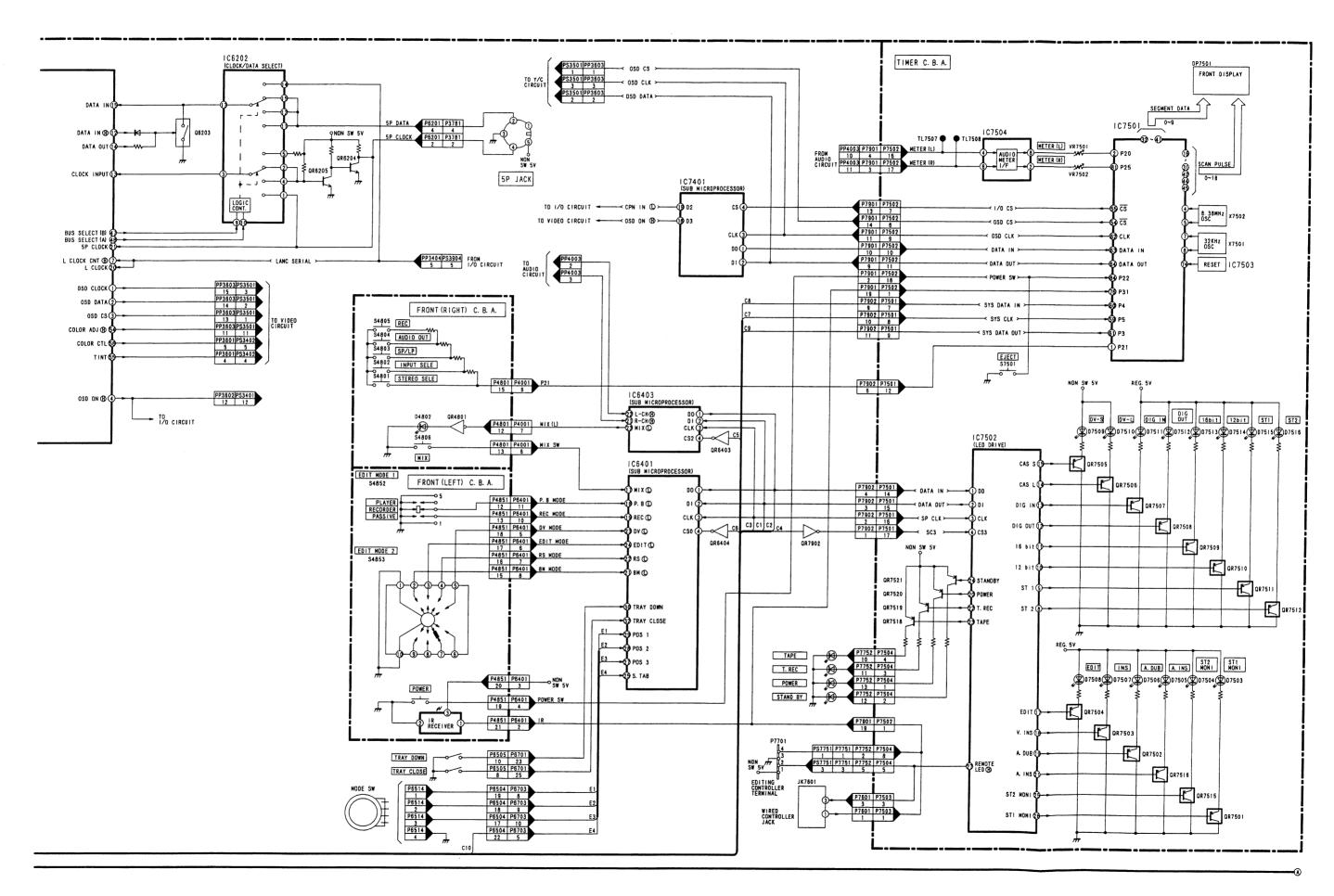
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
\Box	SPA	ATF Smapling Pulse		VDDX	X Drive Power for Colour LCD
	SPEN	8 Bit Shift Register Enable	l	VDDXY	XY Drive Power for Colour LCD
	SPK	Speaker		VDDY	Y Drive Power for Colour LCD
	SPO	Reset for Switcing Power		VDREC	Video Delayed Rec
	SPST	8 Bit Shift Register Strobe		Vgg	Voltage for Gate IC
	SREELP	Supply Reel Pulse		Vgl	Gate off Voltage
	SRT	Start		VID	Video Signal Out
	SSA	Start Sync block Area		VIN	Video Signai Out
	SSS (L)	Slow/Still/Stop		VITC	
	SSW	Select Signal for Low Pass Filter			Vertical Interval Time Code
	ST5V	Safety Tab 5V	ı	VITERBI	One of Signal Detection Method
	STAB	•		VL VII O	Low Voltage
1 1	STB	Safety Tab Switch Stand by Signal		VLC	Variable Length Cording
	STB	Strobe		VLOCKP	Artificial Sync Pulse
			1	VLP	Artificial Sync Pulse
	SWB	Switching Pre-Drive Pulse	1	VM	Motor Voltage
	SYL EC	Cylinder Torque Control		VMD	Velocity Mode Data
	SYL FG	Cylinder FG	Į	VMD1-3	Electric Shutter Mode
⊢	T DUOTO			VMODE	NTSC/PAL Select Switch
i I	T-PHOTO	Take-Up Photo Transistor		VMVH	VH Filter Switching
	T-RL. PLS	Take-Up Reel Pulse		VORP	Video Overlap
1 !	T. BUSCLK	Timer Bus Clock	l	VRB	Voltage Refference Bottom
	T. BUSLSN	Timer Bus Listen	ı	VRBS	Voltage Refference Bottom Output
5 i	T. BUSTLK	Timer Bus Talk	l	VREFH	Refference Voltage High Side
1 1	TBC	Time Base Conntrol		VREFL	Refference Voltage Low Side
	TFT	Thim Film Transistor	- 1	VRI	Refference Voltage Input
	TH	Thermostat for Battery	- 1	VRO	Refference Voltage Output
	TI	Test Mode Select	ļ	VRT	Voltage Refference Top
	TL	Torque Limit	- 1	VRTS	Voltage Refference Top Output
	TM	Sub Code	- 1	vs	Switching Comparator
	TMD	Sub Code Data	1	vss	Vertical Sync Signal
	TRE	Tracking Error Signal			
	TREEL(P)	Take-up Reel (Pulse)	w	W/N	Mode Select for Window Mode
1	TRFIX	Tracking Fix	1	W/N	Wide / Normal
	TRIWAVE	Tracking Wave	- 1	WAD	Write Address Enable
	TRP	Tracking Position	1	WAE	Write Address Enable
	TRP	Trap	ļ	WAERAE	Write Address Enable
	TSR	Head Switching Refference		WARI	Interrupt
	TST	Time Scale Transfer		WB	White Balance
	TU. AUDIO	Tuner Audio	l	WE	Write Enable
	TU. GND	Tuner GND	l	WEM	Memory Write Enable
	TU. V. IN	Tuner Video Signal Input	1	WSB	B AGC Control
1 1	TU. VIDEO	Tuner Video		WSR	R AGC Control
				WTV	Wide TV
u	U/V SEL	R-Y/B-Y Select Signal	\dashv	** ' *	TTIUG I V
	UNLOAD	Un-Loading	X	XIN	Conillator Innut
	UNRE	Microprocessor Read Enable	^	X OUT	Oscillator Input
	UNWE	Microprocessor Head Enable Microprocessor Write Enable	- 1	ł .	Oscillator Output
	UV	R-Y/B-Y		XP	FG Logic Reset
	UV SEL	R-Y/B-Y Select Signal	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V 5140 7	V.C. III
	OV GEL	n-1/D-1 Select Signal	Y	Y FM0-7	Y Field Memory 0-7
V	V DES	Deference Vallege		YCE	Cylinder Error Code
1 1	V. REF	Reference Voltage		YGC	Y Gain Control
	V. EE (H)	Video EE (f)		YMO 0-7	Y Field Memory 0-7
	V. EE [L]	Video EE ①		YNCST	Noize Canceller
	VCO REF	Reference Oscillater		YNR	Luminance Noise Reduction
	V1-V4	V. CCD Drive Pulse		YSDP 0-7	Digital Y Out 0-7
1 1	VB	VH Filter Switching			
1 1		Power Terminal			
	VCE			i	1
	VCNTL	Video Control			
	VCNTL VCO	Voltage Control Oscillator			
	VCNTL VCO VCP				
	VCNTL VCO VCP VCTLD	Voltage Control Oscillator			
	VCNTL VCO VCP	Voltage Control Oscillator Shift Clock Output for Vertical Drive			

3-2. OVERALL BLOCK DIAGRAM

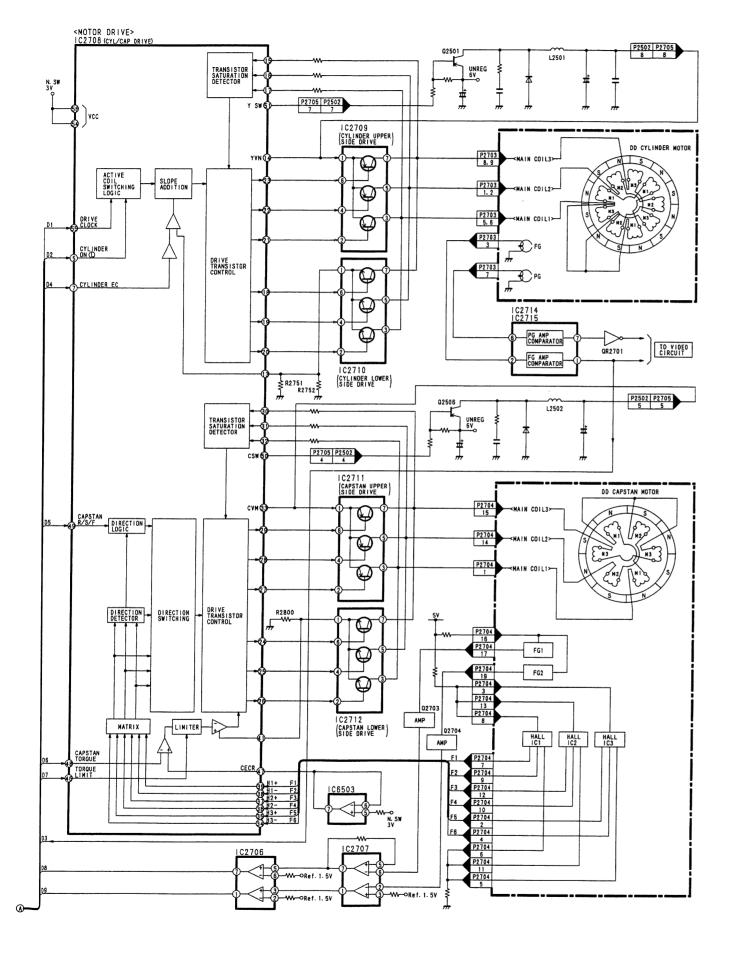


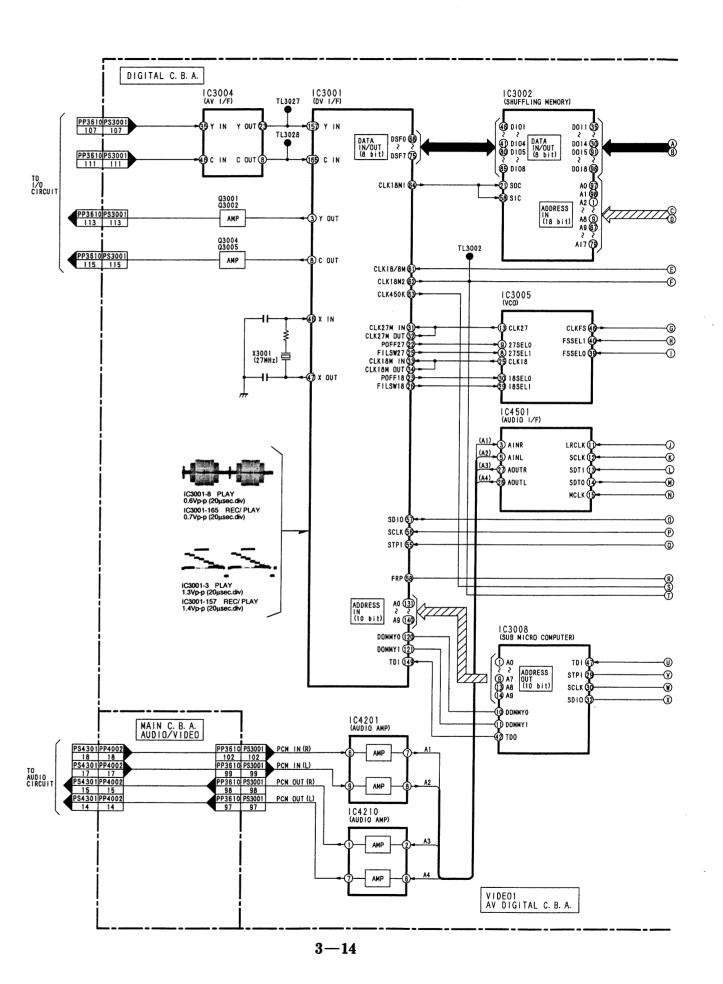
3-3. SYSTEM CONTROL & SERVO BLOCK DIAGRAM



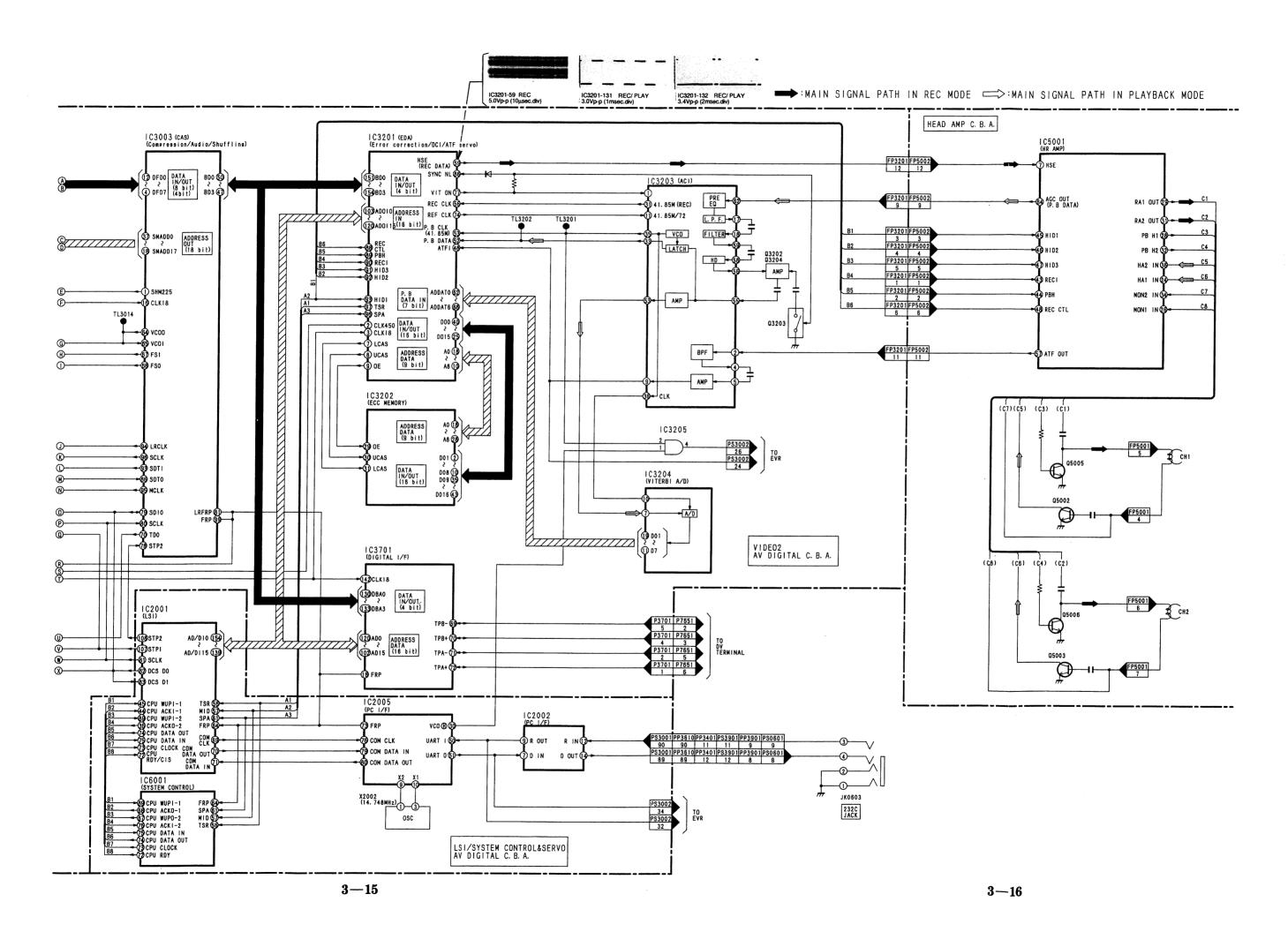


3-4. VIDEO BLOCK DIAGRAM

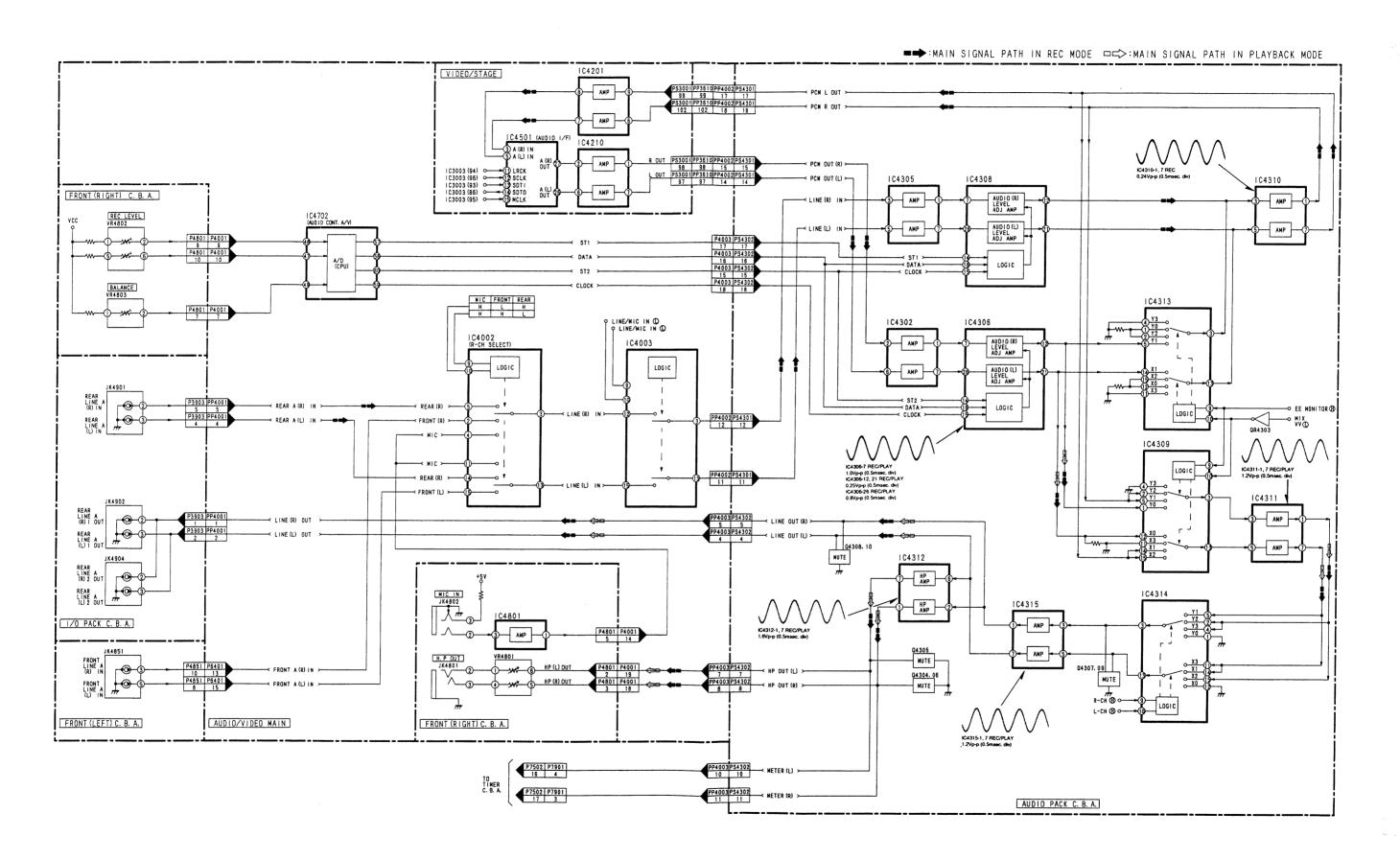




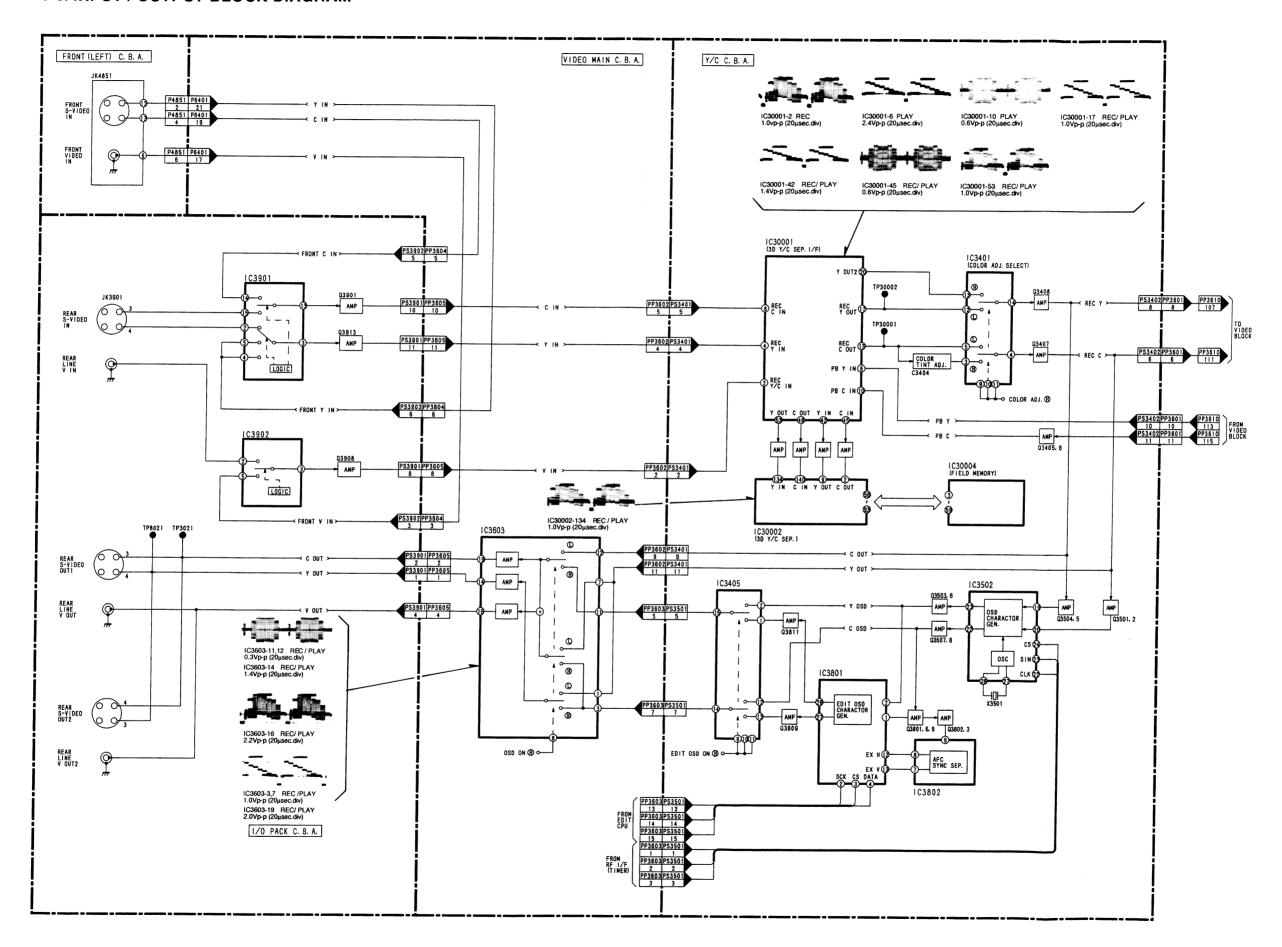
3 - 13



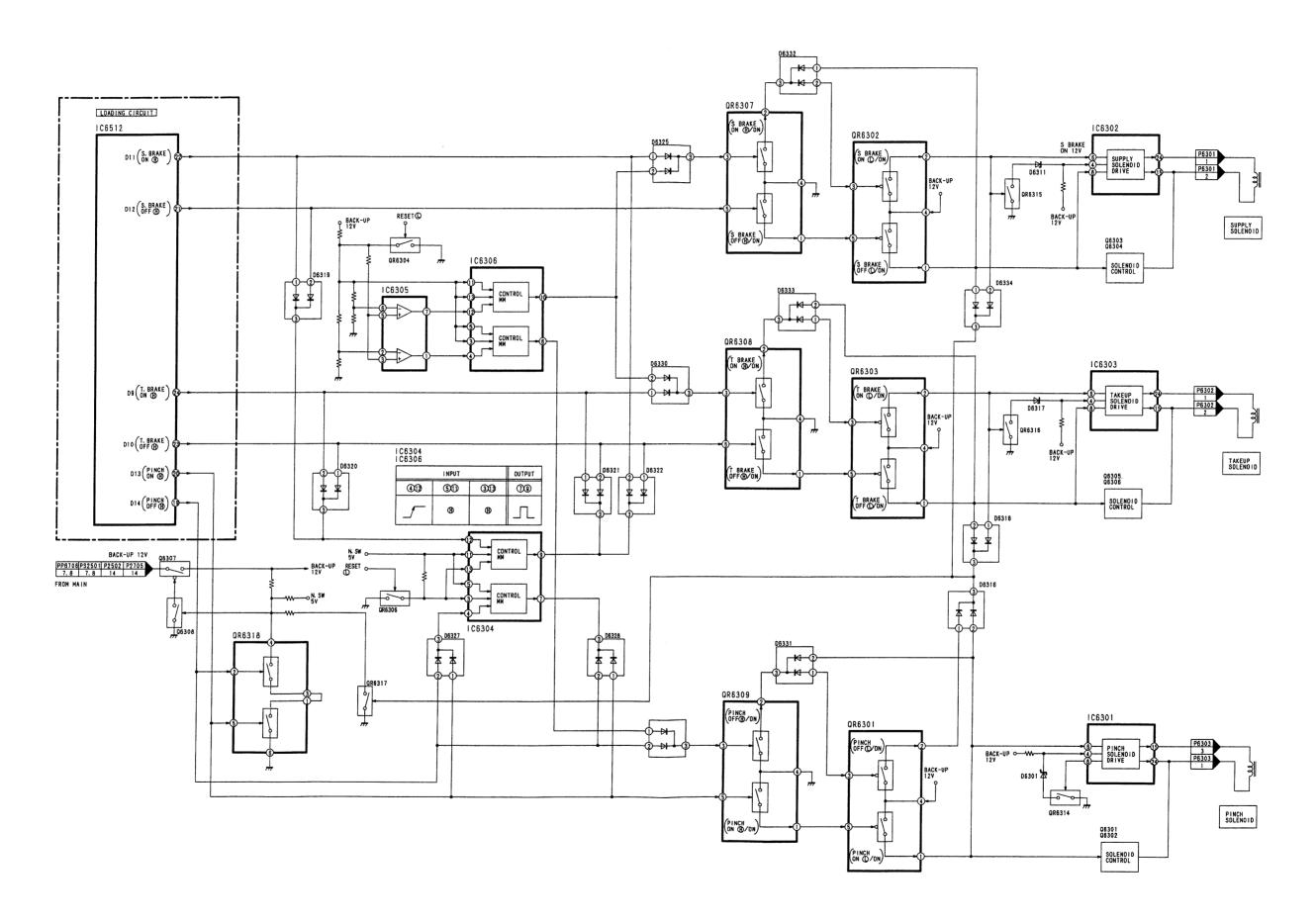
3-5. AUDIO BLOCK DIAGRAM

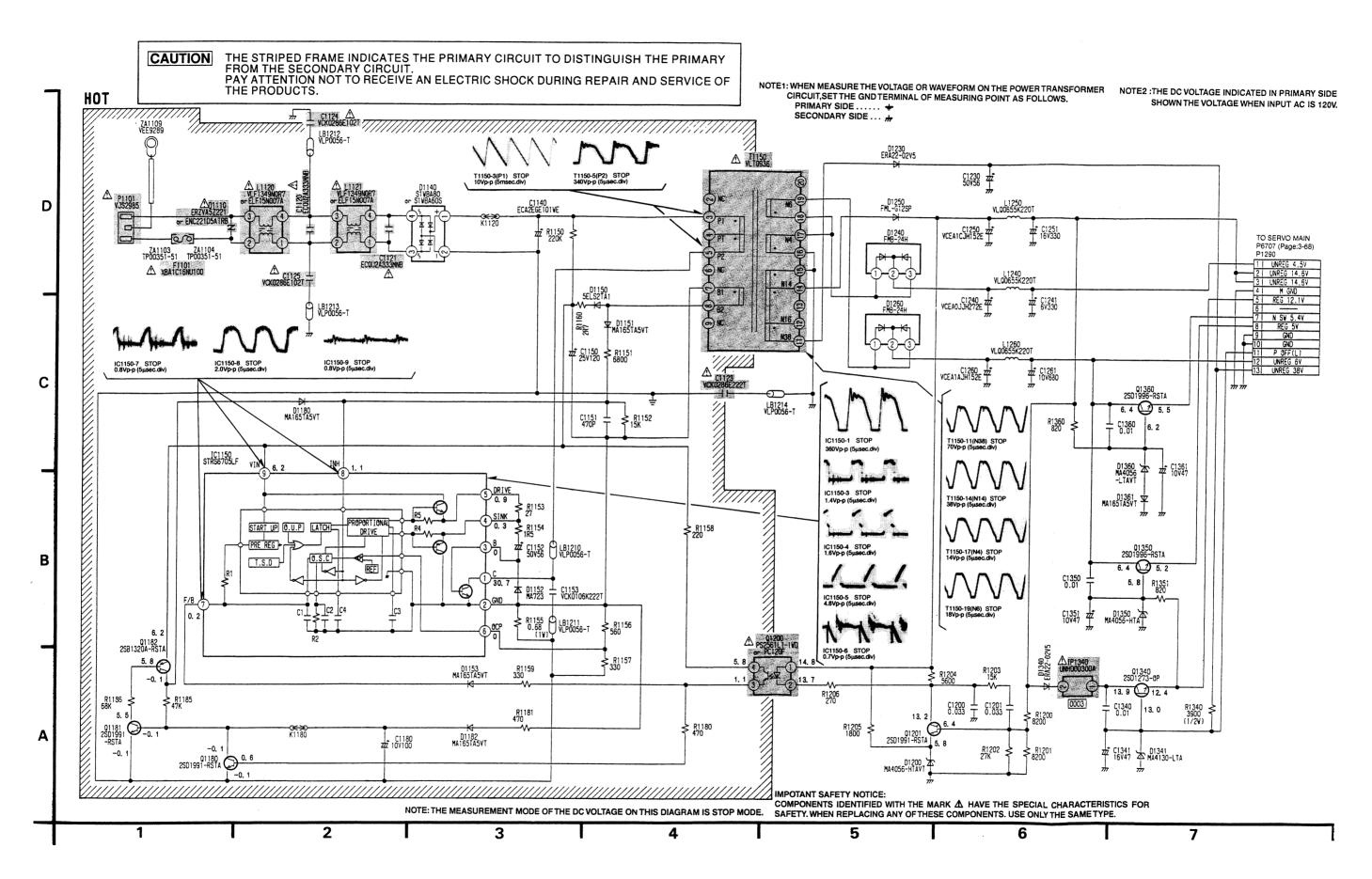


3-6. INPUT / OUTPUT BLOCK DIAGRAM

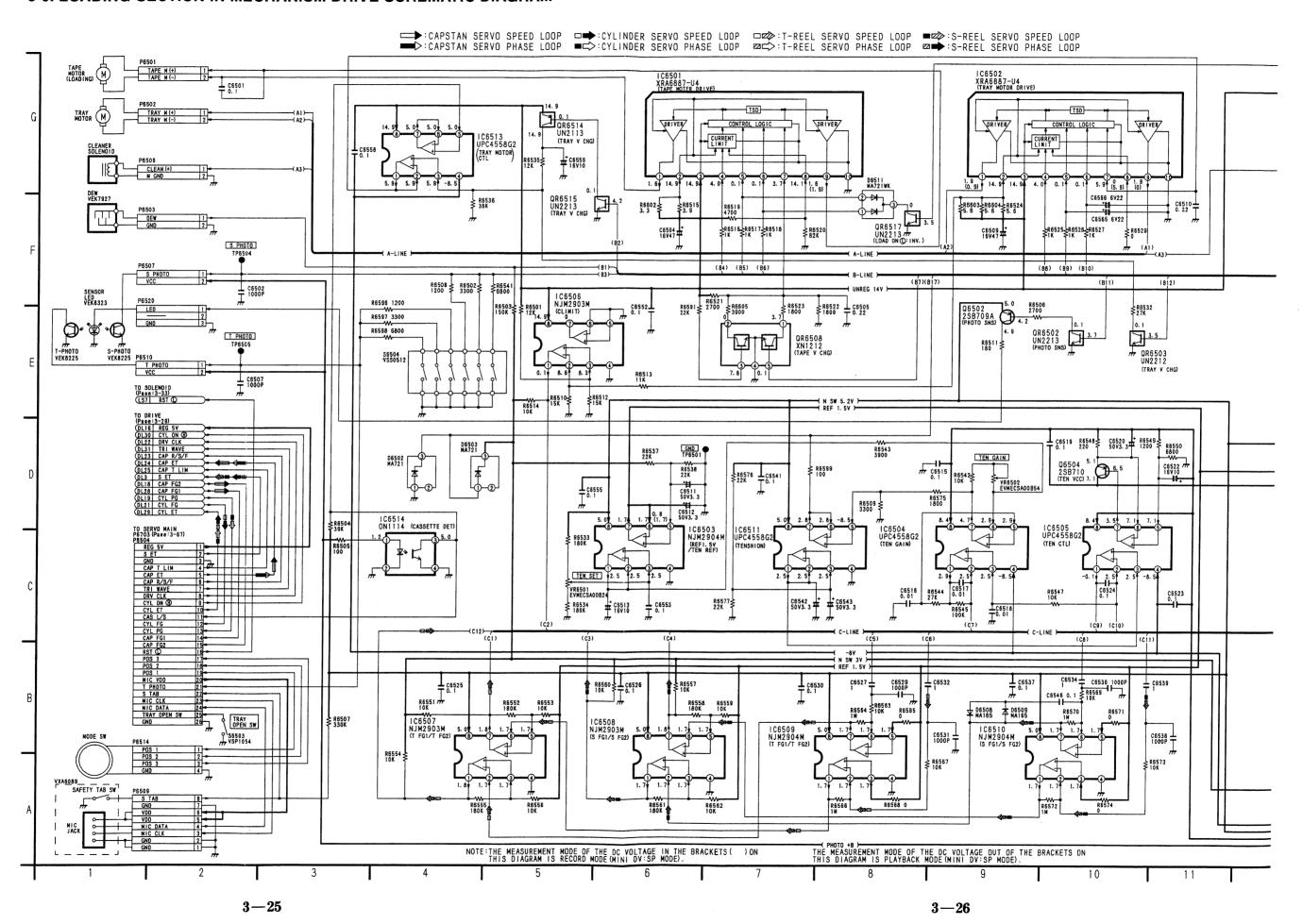


3-7. SOLENOID BLOCK DIAGRAM

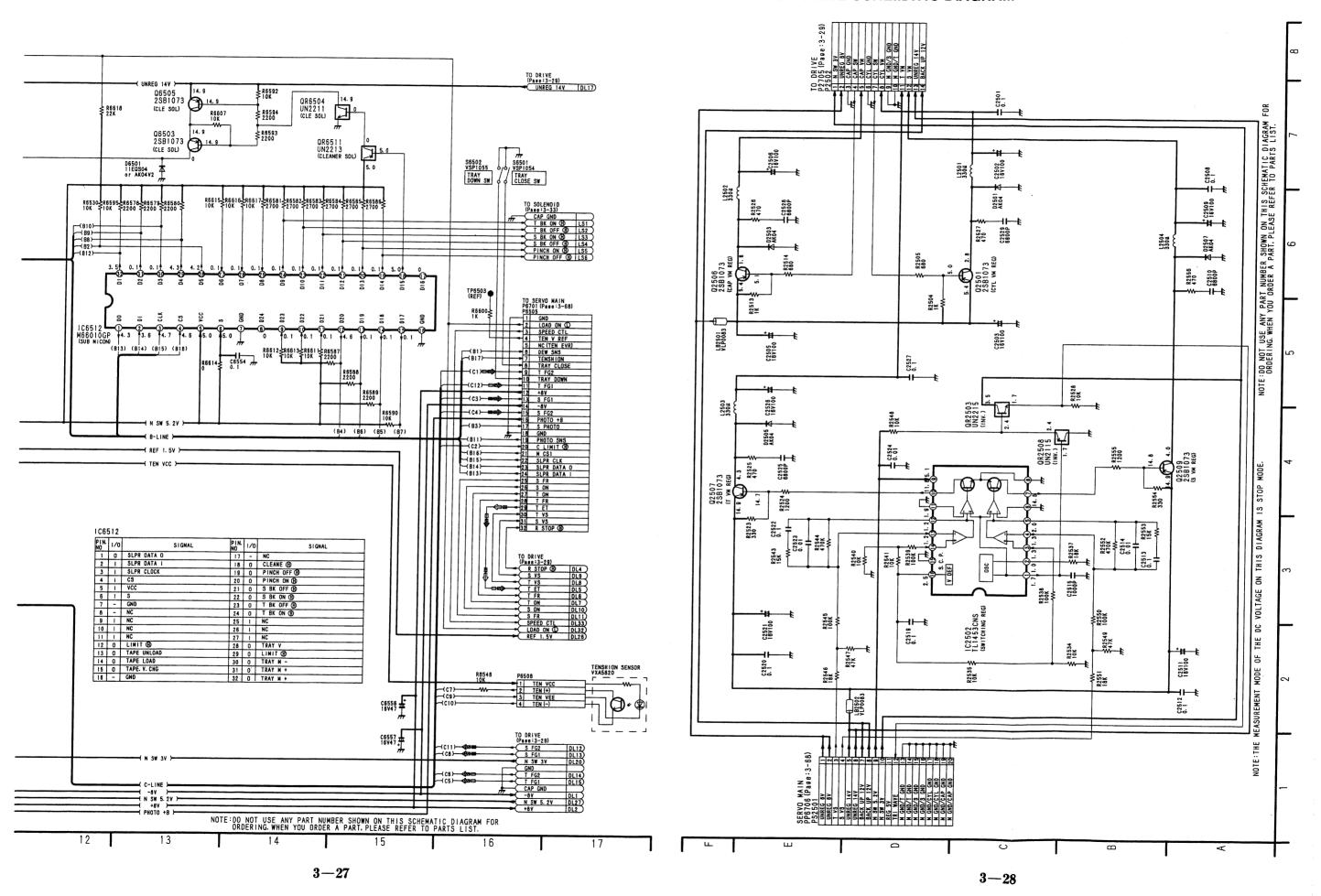




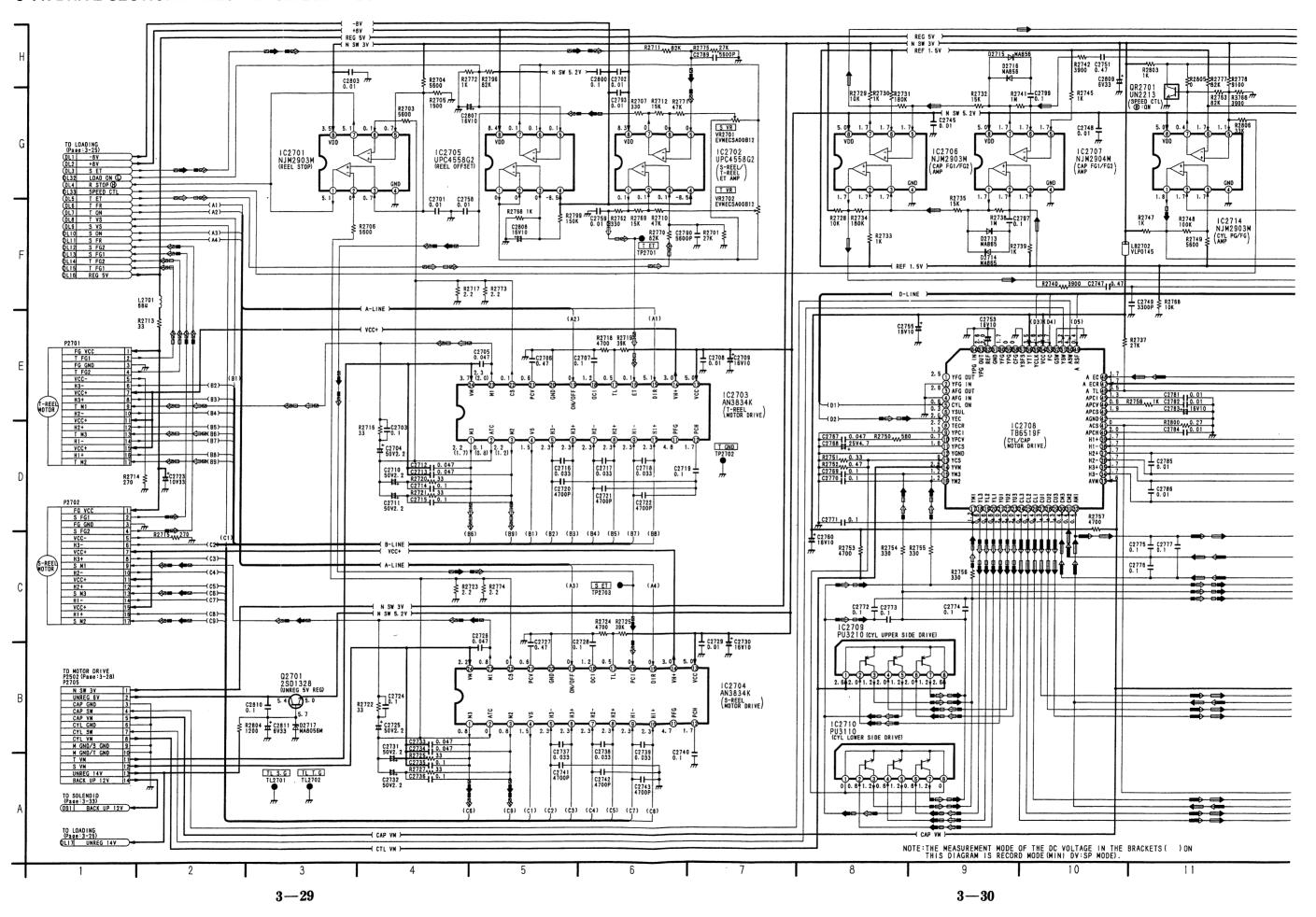
3-9. LOADING SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM

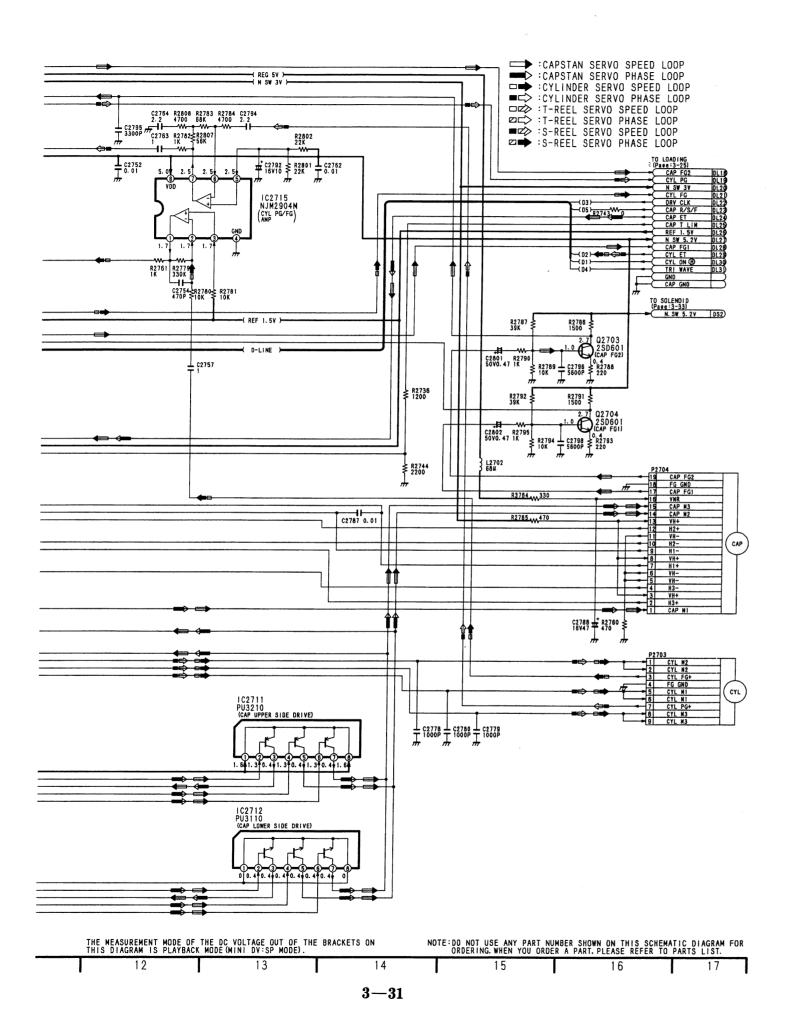


3-10. MOTOR DRIVE SCHEMATIC DIAGRAM

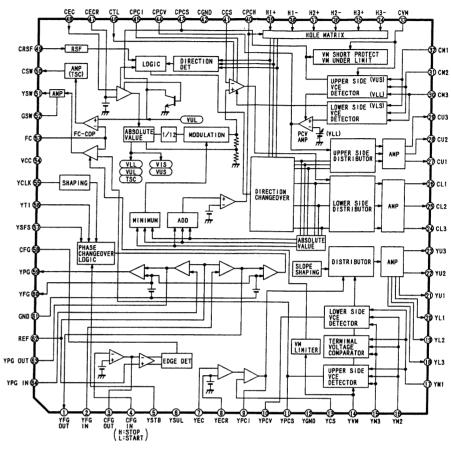


3-11. DRIVE SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM





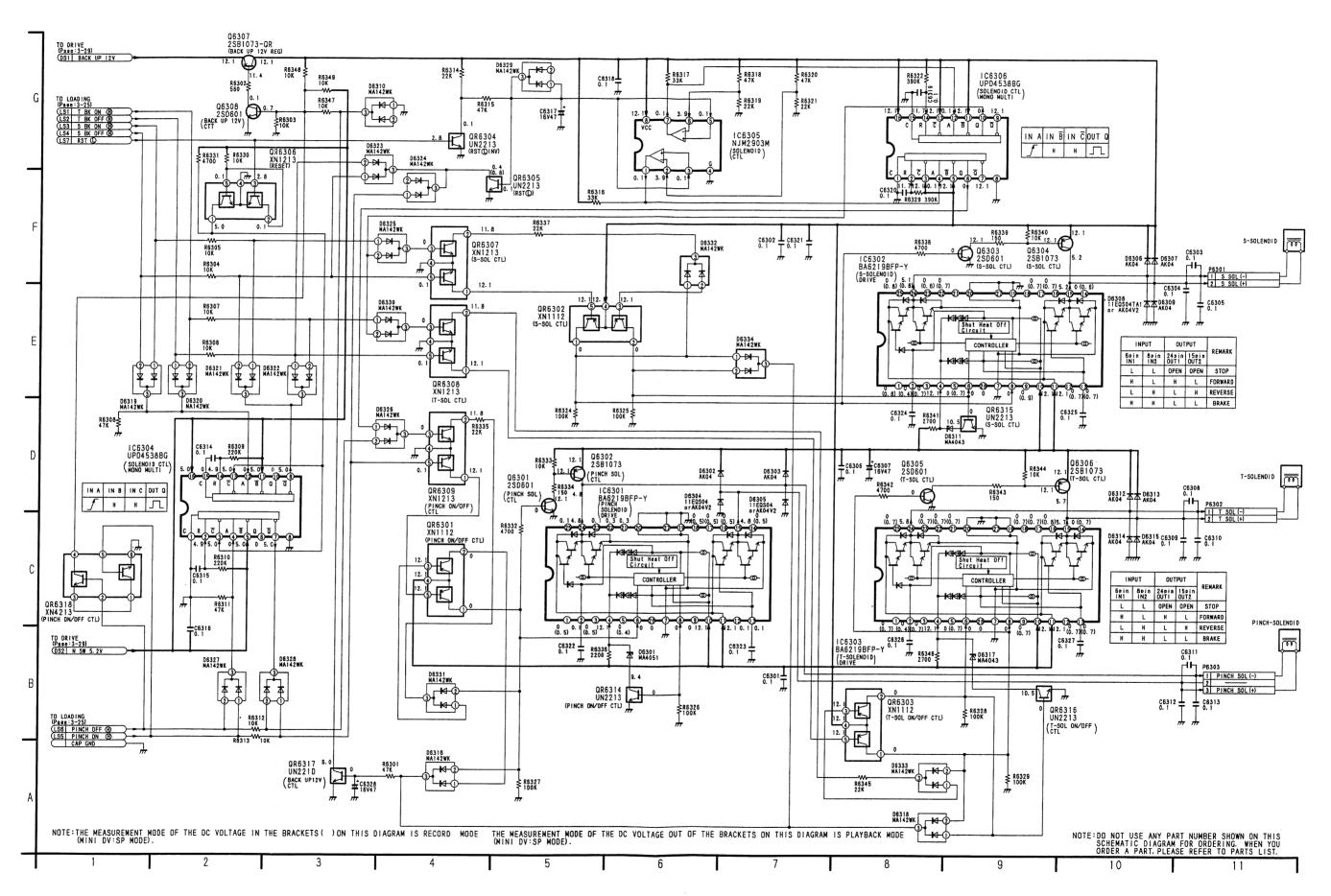
IC2708



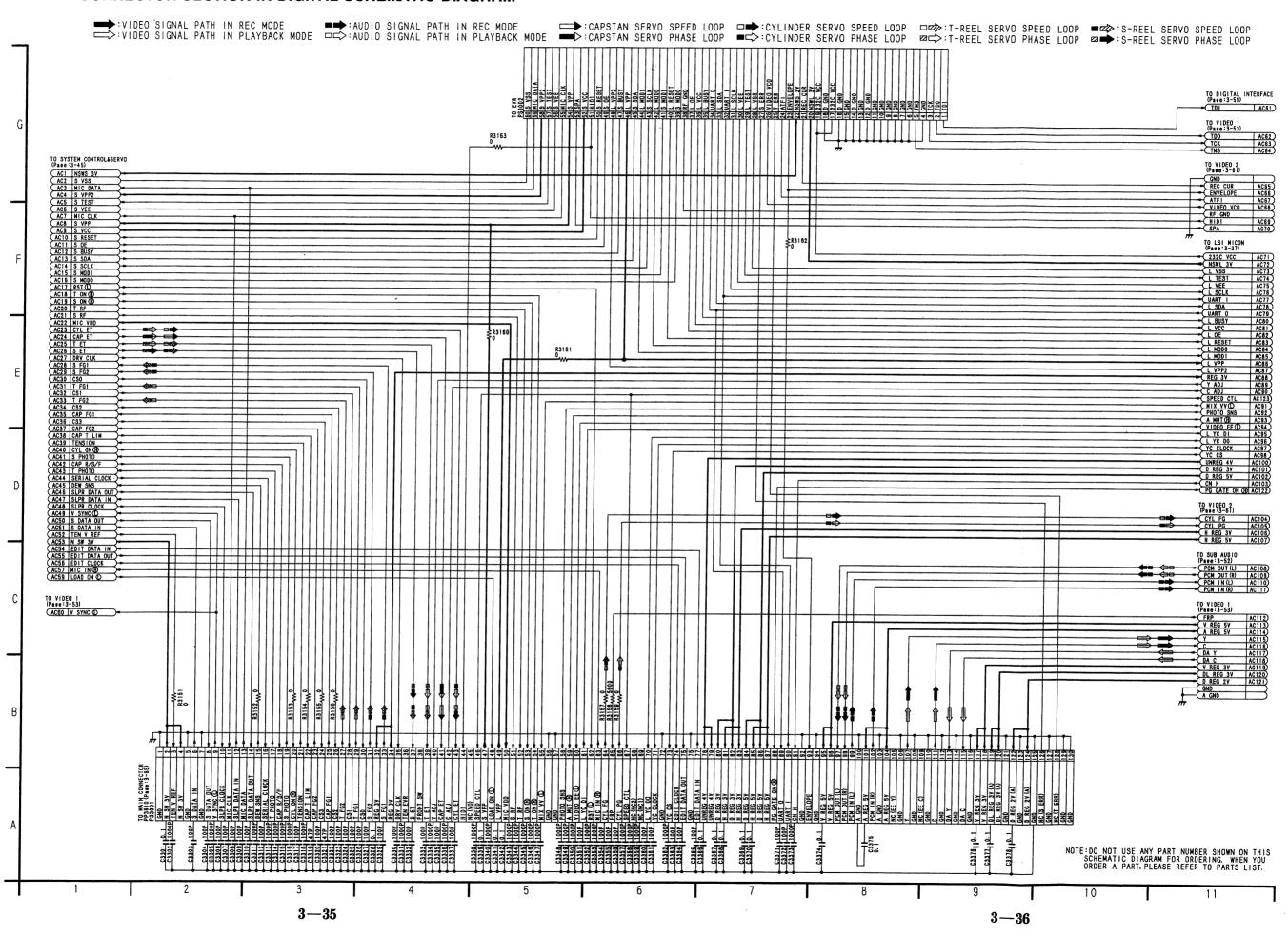
IC2703 IC2704 MODULATION DRIGO UPPER SIDE VCC DETECTOR ABSOLUTE VALUE MINI NUM CURRENT AMP CURRENT AMP UPPER SIDE DISTRIBUTOR LOWER SIDE DISTRIBUTOR SUBTRACTION 111 DIRECTION CHANGEOVER LDGIC WAVE SHAPER HOLE ANP HOLE AMP HOLE AMP

3-32

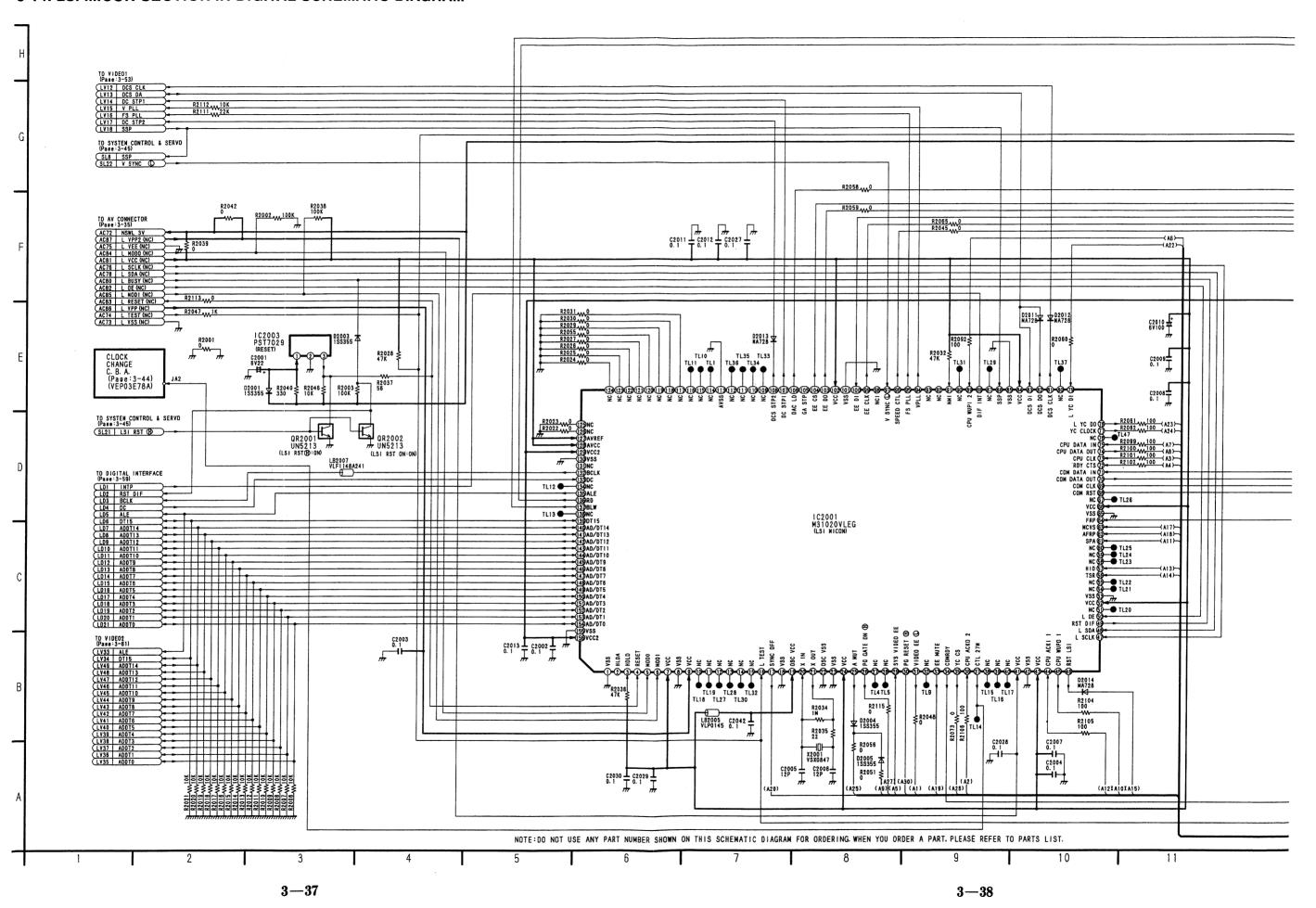
3-12. SOLENOID SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM



3-13. AV CONNECTOR SECTION IN DIGITAL SCHEMATIC DIAGRAM



3-14. LSI MICON SECTION IN DIGITAL SCHEMATIC DIAGRAM



IC2001(M31020VLEG): LSI MICON



3 - 40

QR2003 UN5113 (IW.) VCC NC NC GND IC2004 S291331AFS (EEP ROM) P2009 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 4 MA728 D2010 6 MA728 D2010 6 MA728	TO VIDEO2 (Page: 3-61) ALFA LYI BETA LYZ V VCO LY3 ATFG LY4 COMP LY5 OLAOJ LY6 CLK PH LY7 ERROL LY9 BLW LY10 BLW LY10 RO LY11
R2056	C2045 C2044 C2016 C2016 C2020 C2016 C2020 C2016 C2020 C202
R2075 W 0 R2071 W 0 R2071 W 0 R2071 W 0 R2071 W 0 R2004 W 1 R2005 V 1,2003 10 W 1,2003 10	UNREG 4V AC100
C2022 C2023 T C2025 SVIO W IN V OUT THEBNAL SVIO MM 1320ENRE C2014 C2025 T C2	(A2) UNREG 4V SL3 (CPU ACKO2 SL10) (A3) CPU CLK SL13 (A4) CPU CLK SL13 (A5) R2050 W0 PHOTO SNS SL4 (A6) R2052 W0 W1 VIDEO EE © SL1 (A7) CPU WUPI 2 SL16 (A7) CPU WUPI 2 SL16 (A7) CPU DATA UN SL12 (A8) CPU DATA UN SL12 (A8) CPU WUPI 3 SL2 (A10) CPU WUPI 3 SL3 (A11) SPA SL18 (A12) CPU WUPI 3 SL3 (A13) H101 SL12 (A13) H101 SL12 (A14) TSR SL20 (A14) TSR SL20 (A15) TSR SL20 (A16) CPU WUPO 1 SL19 (A17) CPU WUPO 1 SL19 (A18) CPU WUPO 1 SL19 (A19) CPU WUPO 1 SL19 (A1
## C2043 0.1 ## R2075 33K ## R2075 33K ## R2075 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2077 ## R2082 ## R2079 ## R2079 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2079 ## R2082 ## R2082 ## R2079 ## R2082 ## R2082 ## R2079 ## R2082	(A15) (A30) (A30) (A30) (A30) (A30) (A30) (A31) (A30) (A31) (A31) (A31) (A32) (A33) (A33) (A34) (A34) (A35) (A35) (A35) (A36) (A37) (A37) (A38) (A38) (A38) (A39) (A
12 13 14 15	TO AV CONNECTOR Pass 3-35 TO AV CONNECTOR Pass 3-35

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
119	NC	ı	Connect to GND (0Ω)	138	NC	0	
120	NC	1	Connect to GND (0Ω)	139	DT15	1/0	EXT-Memory Address/Data Bus
121	NC	ı	Connect to GND (0Ω)	140	ADDT14	I/O	EXT-Memory Address/Data Bus
122	NC	1	Connect to GND (0Ω)	141	ADDT13	1/0	EXT-Memory Address/Data Bus
123	NC	1	Connect to GND (0Ω)	142	ADDT12	I/O	EXT-Memory Address/Data Bus
124	NC	1	Connect to GND (0Ω)	143	ADDT11	1/0	EXT-Memory Address/Data Bus
125	NC	1	Connect to GND (0Ω)	144	ADDT10	1/0	EXT-Memory Address/Data Bus
126	NC	1	Connect to GND (0Ω)	145	ADDT9	1/0	EXT-Memory Address/Data Bus
127	AVREF	_		146	ADDT8	1/0	EXT-Memory Address/Data Bus
128	AVCC			147	ADDT7	1/0	EXT-Memory Address/Data Bus
129	VCC2	_		148	ADDT6	I/O	EXT-Memory Address/Data Bus
130	VSS	_		149	ADDT5	1/0	EXT-Memory Address/Data Bus
131	NC	0	-	150	ADDT4	I/Ò	EXT-Memory Address/Data Bus
132	BCLK	0		151	ADDT3	1/0	EXT-Memory Address/Data Bus
133	DC	1	Data Complete for Ext-Momory mode	152	ADDT2	1/0	EXT-Memory Address/Data Bus
134	NC	0		153	ADDT1	1/0	EXT-Memory Address/Data Bus
135	ALE	0	Address Latch Enable for Ext-Memory mode	154	ADDT0	I/O	EXT-Memory Address/Data Bus
136	RD	0	Read Strobe for Ext-Memory mode	155	VSS		
137	BLW	0	Byte Low Write for Ext-Memory mode	156	VCC2	_	

IC2005 (D784037GK509): RS-232C INTERFACE MICROCOMPUTER

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
	EVD OOK		Serial Clock Signal for SYNC Serial	46	TEST	_	GND
1	EVR SCK	0	Communication (To Camera Micom)	47	NC	0	NC
	511D 0D0		Serial Data Signal for SYNC Serial	48	NC	0	NC
2	EVR SBO	0	Communication (To Camera Micom)	49	NC	_	NC
_	VTDT		SYNC Serial Communication Enable	50	UARTI	T	RS-232C Data
5	VTR T	0	Signal for Camera Micom	51	UARTO	0	RS-232C Data
7	RESET	I	Reset Signal	52	PCOE	0	RS-232C Driver Output Enable
8	VDD	_	VDD (+3V)	53	BACK RST	_	(N.C.)
9	X2	0	Oscillator (14.7456MHz)	54	TEST0	1	VTR Test Signal
10	X1	T	Oscillator (14.7456MHz)	7 34	IESTO	'	(H: Normal, L: Test Mode)
11	VSS	_	GND	55	VDD	_	VDD (+3V)
12	NC	0	NC	56	PC RESET	I	Reset Signal Detect (AD Input)
13	NC	0	NC	60	STBY	1	RS-232C Cable Connect Confirm
14	NC	0	NC	61	BACK DET	_	GND
15	NC	_	NC	64	AVDD	_	Voltage for AD Converter (+3V)
17	NC	_	NC	65	AVREF1		Refference Voltage for AD Converter
18	NC	0	NC	1 00	AVNEFI	_	(+3V)
19	NC	_	NC	66	AVSS	_	GND for AD Converter
20	NC	0	NC	67	NC	_	NC
21	NC	0	NC	68	NC	_	NC
22	NC	0	NC	69	NC	_	GND
23	NC	0	NC	70	NC	_	GND
24	NC	_	NC	71	NC	_	GND
25	NC	0	NC	72	NC	_	GND
26	NC	0	NC	73	FRP	1	Frame SYNC Signal
27	NC	0	NC	76	SCK		Serial Clock Signal for SYNC Serial
28	NC	0	NC		SUN		Communication (To VTR Micom)
29	NC	0	NC	77	COM RDY	,	SYNC Serial Communication Enable
30	VCO H	0	VCO Test Mode ⊕] ′′	COIVI ND I	1	Signal for VTR Micom
31	NC	0	NC	78	EVR SDI	1	Serial Data Input for SYNC Serial
32	NC	0	NC	_ ′°	בייח און	1	Communication (To Camera Micom)
33	NC	0	NC	79	SDI		Serial Data for SYNC Serial
34	NC	0	NC	19	301		Communication (To VTR Micom)
35	NC	0	NC	80	SDO	0	Serial Data for SYNC Serial
44	NC	_	NC	80	300		Communication (To VTR Micom)
45	VSS	_	GND				

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LSI MICON ICs DC VOLTAGE CHART (Mini DV : SP MODE)

REF. NO.										IC	2001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
PLAY	0	3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	0	0	3.6	1.7
	0		+		+	_		+		_	_	0	+	0	+	+	+	+	+	
REC		3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	+	0	+	0	3.6	3.6	0	3.6	1.7
F.F	0	3.6	3.6	2.7	0	3.6	3.6	3.6	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
REW	0	3.6	3.6	2.6	0	3.6	3.6	0	3.6	0	0	0	0	0	0	0	3.6	0	3.6	1.7
REF. NO.		-	,			,				IC2	2001	,	·					,		,
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	1.7	0	0	3.6	0	0	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
PLAY	1.8	0	0	3.6	0	0	0	0	3.6	0	3.6	0	0	3.6	3.3	0	3.6	0	0	0
REC	1.7	0	0	3.6	0	0	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
F.F	1.8	0	0	3.6	0	0	0	0	0	.0	0	0	0	3.6	3.3	0	0	0	0	0
REW	1.8	0	0	3.5	0	3.6	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
REF. NO.	1.0			1 0.0		1 0.0		1 -	<u>_</u> _		2001			1 0.0	1 0.0		1		1	
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	3.6	 	+	0	0		3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
STOP		0	3.6	+		3.6		+								+	 		+	
PLAY	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
REC	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
F.F	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
REW	3.6	0.7	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.6	0.2
REF. NO.										IC2	001	,		,	,		,	,		
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
PLAY	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.5	0	3.6	3.5	2.8	0
REC	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
F.F	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
	0		-							-			-			+				
REW	U	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0.9
REF. NO.								T- :-			001									
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	3.6	2.9	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	1.1	0	1.0	0	3.6	3.6	1.6
PLAY	3.6	3.0	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	0	1.6	1.0	0	3.6	3.6	1.1
REC	3.6	3.2	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	1.1	0	0.9	0	3.6	3.6	1.8
F.F	3.6	3.1	2.9	3.5	0	0	0	3.0	0	0	3.6	0	0	1.1	0	1.1	1.0	3.6	3.6	1.8
REW	3.6	3.3	2.9	2.6	_	_	_	2.0	0	0	3.6	0	0	1.1	0	1.0	0.0	3.6	3.6	1.8
				1 3.0				1 3.0								1 1.0	0.0	0.0		
	0.0	3.3	2.9	3.6	0	0	0	3.0						1.1		1.0	3.6	3.0	3.0	-1.0
REF. NO.										IC2	001									
REF. NO. MODE	101	102	103	104	105	106	107	108	109	1C2	001 111	112	113	114	115	116	117	118	119	120
REF. NO. MODE STOP	101	102	103	104	105	106	107	108	109	10 110 0	001 111 0	112	113	114	115	116	117	118	119	120
REF. NO. MODE STOP PLAY	101 0 0	102 3.6 3.6	103 3.6 3.6	104 0 0	105 0 0	106 0 0	107 2.7 2.7	108 3.5 3.4	109 0 0	110 0 0	001 111 0 0	112 0 0	113 0 0	114 1.5 1.1	115 1.5 1.1	116 1.5 1.1	117 0 0	118 0 0	119 0 0	120 0 0
REF. NO. MODE STOP PLAY REC	101 0 0	102 3.6 3.6 3.6	103 3.6 3.6 3.6	104 0 0	105 0 0	106 0 0	107 2.7 2.7 2.7	108 3.5 3.4 3.4	109 0 0	110 0 0	001 111 0 0	112 0 0	113 0 0	114 1.5 1.1 1.7	115 1.5 1.1 1.8	116 1.5 1.1 1.7	117 0 0	118 0 0	119 0 0	120 0 0
REF. NO. MODE STOP PLAY REC F.F	101 0 0 0	102 3.6 3.6 3.6 3.6	103 3.6 3.6 3.6 3.6	104 0 0 0	105 0 0 0	106 0 0 0	107 2.7 2.7 2.7 2.7	108 3.5 3.4 3.4 3.5	109 0 0 0	110 0 0 0	001 111 0 0 0	112 0 0 0	113 0 0 0	114 1.5 1.1 1.7 1.8	115 1.5 1.1 1.8 1.8	116 1.5 1.1 1.7	117 0 0 0	118 0 0 0	119 0 0 0	120 0 0 0 0
REF. NO. MODE STOP PLAY REC	101 0 0	102 3.6 3.6 3.6	103 3.6 3.6 3.6	104 0 0	105 0 0	106 0 0	107 2.7 2.7 2.7	108 3.5 3.4 3.4	109 0 0	1C2 110 0 0 0 0	001 111 0 0 0 0	112 0 0	113 0 0	114 1.5 1.1 1.7	115 1.5 1.1 1.8	116 1.5 1.1 1.7	117 0 0	118 0 0	119 0 0	120 0 0 0
REF. NO. MODE STOP PLAY REC F.F	101 0 0 0	102 3.6 3.6 3.6 3.6	103 3.6 3.6 3.6 3.6	104 0 0 0	105 0 0 0	106 0 0 0	107 2.7 2.7 2.7 2.7	108 3.5 3.4 3.4 3.5	109 0 0 0	110 0 0 0	001 111 0 0 0 0	112 0 0 0	113 0 0 0	114 1.5 1.1 1.7 1.8	115 1.5 1.1 1.8 1.8	116 1.5 1.1 1.7	117 0 0 0	118 0 0 0	119 0 0 0	120 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW	101 0 0 0	102 3.6 3.6 3.6 3.6	103 3.6 3.6 3.6 3.6	104 0 0 0	105 0 0 0	106 0 0 0	107 2.7 2.7 2.7 2.7	108 3.5 3.4 3.4 3.5	109 0 0 0	1C2 110 0 0 0 0	001 111 0 0 0 0	112 0 0 0	113 0 0 0	114 1.5 1.1 1.7 1.8	115 1.5 1.1 1.8 1.8	116 1.5 1.1 1.7	117 0 0 0	118 0 0 0	119 0 0 0	120 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	101 0 0 0 0	102 3.6 3.6 3.6 3.6 3.6	103 3.6 3.6 3.6 3.6 3.6	104 0 0 0 0	105 0 0 0 0	106 0 0 0 0	107 2.7 2.7 2.7 2.7 2.7	108 3.5 3.4 3.4 3.5 3.4	109 0 0 0 0	1C2 110 0 0 0 0 0	001 111 0 0 0 0 0	112 0 0 0 0	113 0 0 0 0	114 1.5 1.1 1.7 1.8 1.4	115 1.5 1.1 1.8 1.8 1.4	116 1.5 1.1 1.7 1.8 1.5	117 0 0 0 0	118 0 0 0 0	119 0 0 0 0	120 0 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	101 0 0 0 0 0	102 3.6 3.6 3.6 3.6 3.6	103 3.6 3.6 3.6 3.6 3.6	104 0 0 0 0 0	105 0 0 0 0 0	106 0 0 0 0 0	107 2.7 2.7 2.7 2.7 2.7 2.7	108 3.5 3.4 3.4 3.5 3.4	109 0 0 0 0 0	100 0 0 0 0 0 0 102 130	001 111 0 0 0 0 0 0	112 0 0 0 0 0	113 0 0 0 0 0	114 1.5 1.1 1.7 1.8 1.4	115 1.5 1.1 1.8 1.8 1.4	116 1.5 1.1 1.7 1.8 1.5	117 0 0 0 0 0	118 0 0 0 0 0	119 0 0 0 0 0 0	120 0 0 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	101 0 0 0 0 0 0	102 3.6 3.6 3.6 3.6 3.6 3.6 0	103 3.6 3.6 3.6 3.6 3.6 3.6	104 0 0 0 0 0 0	105 0 0 0 0 0 0	106 0 0 0 0 0	107 2.7 2.7 2.7 2.7 2.7 2.7 2.7 3.6 3.6	108 3.5 3.4 3.4 3.5 3.4 128 3.6 3.6	109 0 0 0 0 0 0	1C2 110 0 0 0 0 0 0 1C2 130 0	001 111 0 0 0 0 0 0 0 0	112 0 0 0 0 0 0 0	113 0 0 0 0 0 0	114 1.5 1.1 1.7 1.8 1.4	1.5 1.5 1.1 1.8 1.8 1.4	116 1.5 1.1 1.7 1.8 1.5	117 0 0 0 0 0 0	118 0 0 0 0 0 0 138 2.2 2.2	119 0 0 0 0 0 0	120 0 0 0 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC	101 0 0 0 0 0 0	102 3.6 3.6 3.6 3.6 3.6 3.6 0 0	103 3.6 3.6 3.6 3.6 3.6 3.6 0 0	104 0 0 0 0 0 0	105 0 0 0 0 0 0	106 0 0 0 0 0 0	107 2.7 2.7 2.7 2.7 2.7 2.7 2.7 3.6 3.6 3.6	108 3.5 3.4 3.4 3.5 3.4 128 3.6 3.6 3.6	109 0 0 0 0 0 0 129 2.2 2.2 2.2	102 110 0 0 0 0 0 102 130 0 0	001 1111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112 0 0 0 0 0 0 0 0 0 0 7 0.7	113 0 0 0 0 0 0	114 1.5 1.1 1.7 1.8 1.4	115 1.5 1.1 1.8 1.8 1.4	116 1.5 1.1 1.7 1.8 1.5	117 0 0 0 0 0 0 0	118 0 0 0 0 0 0 138 2.2 2.2 2.1	119 0 0 0 0 0 0 0 0	120 0 0 0 0 0 0 0 0 0 0 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F	101 0 0 0 0 0 0	102 3.6 3.6 3.6 3.6 3.6 3.6 0 0	103 3.6 3.6 3.6 3.6 3.6 3.6 0 0	104 0 0 0 0 0 0	105 0 0 0 0 0 0	106 0 0 0 0 0 0	107 2.7 2.7 2.7 2.7 2.7 2.7 3.6 3.6 3.6 3.6	108 3.5 3.4 3.4 3.5 3.4 128 3.6 3.6 3.6 3.6	109 0 0 0 0 0 0 129 2.2 2.2 2.2	102 110 0 0 0 0 0 102 130 0 0	001 1111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112 0 0 0 0 0 0 0 0 0 0 0 0 7 0.7 0.7	113 0 0 0 0 0 0 0	114 1.5 1.1 1.7 1.8 1.4 134 0 0	115 1.5 1.1 1.8 1.8 1.4 135 0 0	116 1.5 1.1 1.7 1.8 1.5	117 0 0 0 0 0 0 0	118 0 0 0 0 0 0 138 2.2 2.2 2.1	119 0 0 0 0 0 0 0 139 0.1 0.1 0.1	120 0 0 0 0 0 0 0 140 0 0.1 0.1
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW	101 0 0 0 0 0 0	102 3.6 3.6 3.6 3.6 3.6 3.6 0 0	103 3.6 3.6 3.6 3.6 3.6 3.6 0 0	104 0 0 0 0 0 0	105 0 0 0 0 0 0	106 0 0 0 0 0 0	107 2.7 2.7 2.7 2.7 2.7 2.7 2.7 3.6 3.6 3.6	108 3.5 3.4 3.4 3.5 3.4 128 3.6 3.6 3.6	109 0 0 0 0 0 0 129 2.2 2.2 2.2	110 0 0 0 0 0 0 1C2 130 0 0 0	001 1111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112 0 0 0 0 0 0 0 0 0 0 7 0.7	113 0 0 0 0 0 0	114 1.5 1.1 1.7 1.8 1.4	115 1.5 1.1 1.8 1.8 1.4	116 1.5 1.1 1.7 1.8 1.5	117 0 0 0 0 0 0 0	118 0 0 0 0 0 0 138 2.2 2.2 2.1	119 0 0 0 0 0 0 0 0	120 0 0 0 0 0 0 0 0 0 0 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	101 0 0 0 0 0 121 0 0 0	102 3.6 3.6 3.6 3.6 3.6 0 0 0	103 3.6 3.6 3.6 3.6 3.6 0 0 0	104 0 0 0 0 0 0 124 0 0 0	105 0 0 0 0 0 0 125 0 0 0	106 0 0 0 0 0 0 126 0 0 0	107 2.7 2.7 2.7 2.7 2.7 2.7 3.6 3.6 3.6 3.6 3.6	108 3.5 3.4 3.4 3.5 3.4 128 3.6 3.6 3.6 3.6 3.6	109 0 0 0 0 0 129 2.2 2.2 2.2 2.2 3.6	110 0 0 0 0 0 0 1C2 130 0 0 0 0	001 111 0 0 0 0 0 0 0 0 0 131 0 0 0 0 0 0 0 0 0 0 0 0 0	112 0 0 0 0 0 0 132 0.7 0.7 0.7 0.7	113 0 0 0 0 0 0 133 0 0 0	114 1.5 1.1 1.7 1.8 1.4 134 0 0 0	115 1.5 1.1 1.8 1.8 1.4 135 0 0 0	116 1.5 1.1 1.7 1.8 1.5 136 2.2 2.1 2.2 2.2	117 0 0 0 0 0 0 0	118 0 0 0 0 0 0 138 2.2 2.2 2.1	119 0 0 0 0 0 0 0 139 0.1 0.1 0.1	120 0 0 0 0 0 0 0 140 0 0.1 0.1
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REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	101 0 0 0 0 0 0 0 0 0 0 0 0 0	102 3.6 3.6 3.6 3.6 3.6 0 0 0 0 0 0 142 0 0 0.1 0.1 2.2 0 0 3.1 3.1 3.1 3.1 3.1 3.1 0 3.1 0	103 3.6 3.6 3.6 3.6 3.6 3.6 0 0 0 0 143 0 0.1 0.1 0.1 2.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	104 0 0 0 0 0 0 0 0 0 0 0 0 0	105 0 0 0 0 0 0 0 0 0 0 0 0 0	106 0 0 0 0 0 0 0 0 0 0 0 0 0	107 2.7 2.7 2.7 2.7 2.7 2.7 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.1 147 0 0.1 0.1 0 0.1 0 0 0 0 0 0 0 0 0 0 0 0	108 3.5 3.4 3.5 3.4 128 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	109 0 0 0 0 0 129 2.2 2.2 2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	IC2 110 0 0 0 0 IC2 130 0 0 0 0 IC2 130 0 0 0 110 150 0 110 110 110 119 119 119 119 119 119	0001 1111 0 0 0 0 0 0 0 0 0 1311 0 0 0 0	112 0 0 0 0 0 132 0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	113 0 0 0 0 0 0 0 0 0 0 0 0 0	114 1.5 1.1 1.7 1.8 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	115 1.5 1.1 1.8 1.8 1.4 135 0 0 0 0 0 155 0 0 0 0 15 0 0 0 15 0 0 0 15 0 0 0 15 0 0 0 15 0 0 0 0	116 1.5 1.1 1.7 1.8 1.5 136 2.2 2.1 2.2 2.2 2.2 2.2 2.2 16 0 0.1 0 0.1 0 0.1 36 1.9 1.9	117 0 0 0 0 0 137 2.1 2.2 2.1 0 2.2 2.1 0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	118 0 0 0 0 138 2.2 2.1 0 2.2 2.1 0 0.1 0.1 0.1 0.1 0.3 0 0 0 0 0 0 0 0 0 0 0 0 0	119 0 0 0 0 0 0 139 0.1 0.1 0.6 0.0 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	120 0 0 0 0 0 0 0 140 0 0 0 0 0 0 0 0 0 0 0 0 0

REF. NO.	T									10	2002									
MODE	41	42	43	44	45	46	47	48	Т	10	2002	Т	1		1					т
STOP	0	0	1 0	1 0	0	1.4	0.8	1.3	┼	+	+	-	-	-	┼	+	-	+	+	┼
PLAY	0.1	0.1	0.1	2.0	2.0	1.4	0.8	1.3	 	+	+		-		 	+	+	+	+	+
REC	0.1	0.1	0.1	0	0	1.4	0.8	1.3	+	 	-	+	-	+	 	+	+	+	+	+
F.F	0.1	0.1	0.1	1 0	2.0	1.4	0.8	1.3	+	+	+	+	+	+	+-	+	+-	 	+	+
REW	0	1 0	1 0	0	2.0	1.4	0.8	1.3	_	+	+	┼		-	+	+	+	┼─	+	+
REF. NO.	- ٽ			1 0		2003	1 0.0	1 1.3			+		1		10	2004		<u> </u>	.i	
MODE	1	2	T 3	T	T	1	T	T	Τ	Т-	1	2	3	4	5		T 7	T 8	1	т
STOP	3.2	0	3.2	+	+	+	1	+	-	+	0	3.6	3.6	1.7	0	6	0.6	3.7	 	-
PLAY	3.2	0	3.2	 	+	-	 	+	-	+	0	3.6	3.6	1.6	0	10	0.8	3.7	-	
REC	3.2	0	3.2	1		+	 	 	-	 	0	3.6	3.6	1.7	0	0	0.8	3.6	-	-
F.F	3.2	0	3.2	+	+	1	 	+	-	 	0	3.6	3.6	1.7	0	0	0.8	3.7	┼	-
REW	3.2	0	3.2	_	+	†	_		 	-	0	3.6	3.6	1.7	0	0	0.8	3.7	-	+
REF. NO.	1		1 0				1	<u> </u>		IC:	2005	1 0.0	0.0	1.1		1 0	1 0.6	3.1		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.6	0	0	0	3.7	3.7	10	17	3.7	0	0
PLAY	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.7	0	0	0	3.7	3.7	0	1 0	3.7	0	0
REC	3.0	0.8	0	0	3.6	0	3.6	3.6	1.8	1.5	0	0	0	3.6	3.6	0	0	3.6	0	0
F.F	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.5	0	0	0	3.7	3.7	0	0	3.7	0	0
REW	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.5	0	0	0	3.7	3.7	0	1 0	3.7	0	0
REF. NO.					1		1 0.0	<u> </u>	1		2005			0.7	0.7	1 0	1 0	1 3.1	1 0	1
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
PLAY	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
REC	0	0	0	0	0	3.6	0	3.6	3.6	0	0	3.6	3.6	3.6	0	0	0	0	0	0
F.F	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.6	0	0	0	0	0	0
REW	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
REF. NO.										IC2	005									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
PLAY	0.1	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0.1	0	2.1
REC	0	0	0	0	0	0	0	3.6	0	3.4	3.6	3.6	0	3.6	3.6	3.3	0	0	0	2.1
F.F	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
REW	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
REF. NO.										IC2	005									
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	3.7	3.7	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
PLAY	0	0	0	3.7	3.7	0	0	0	0	0	0	0.1	1.5	0	0	3.5	3.6	0	3.3	0.1
REC	0	0	0	3.6	3.6	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
F.F	0	0	0	3.7	3.7	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
REW	0	0	0	3.7	3.7	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
REF. NO.										IC2	006									
MODE	1	2	3	4	5															
STOP	3.7	0	1.2	3.3	5.2															
PLAY	3.7	0	1.2	3.3	5.1								T							
REC	3.7	0	1.2	3.3	5.1															
F.F	3.7	0	1.2	3.3	5.1												T			
REW	3.7	0	1.2	3.3	5.1															

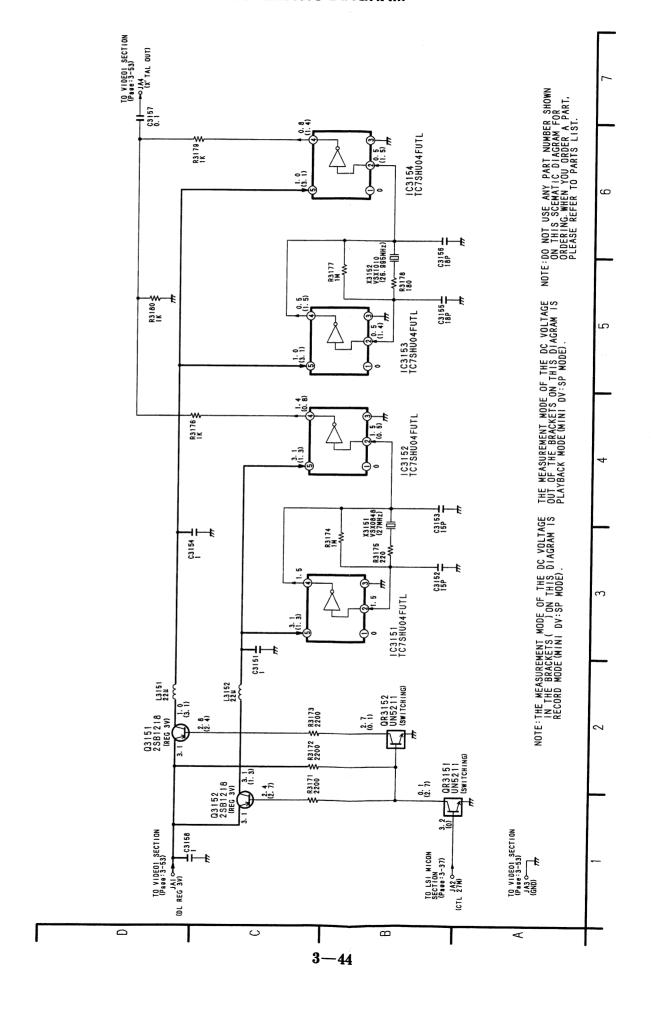
LSI MICON TRs DC VOLTAGE CHART (Mini DV : SP MODE)

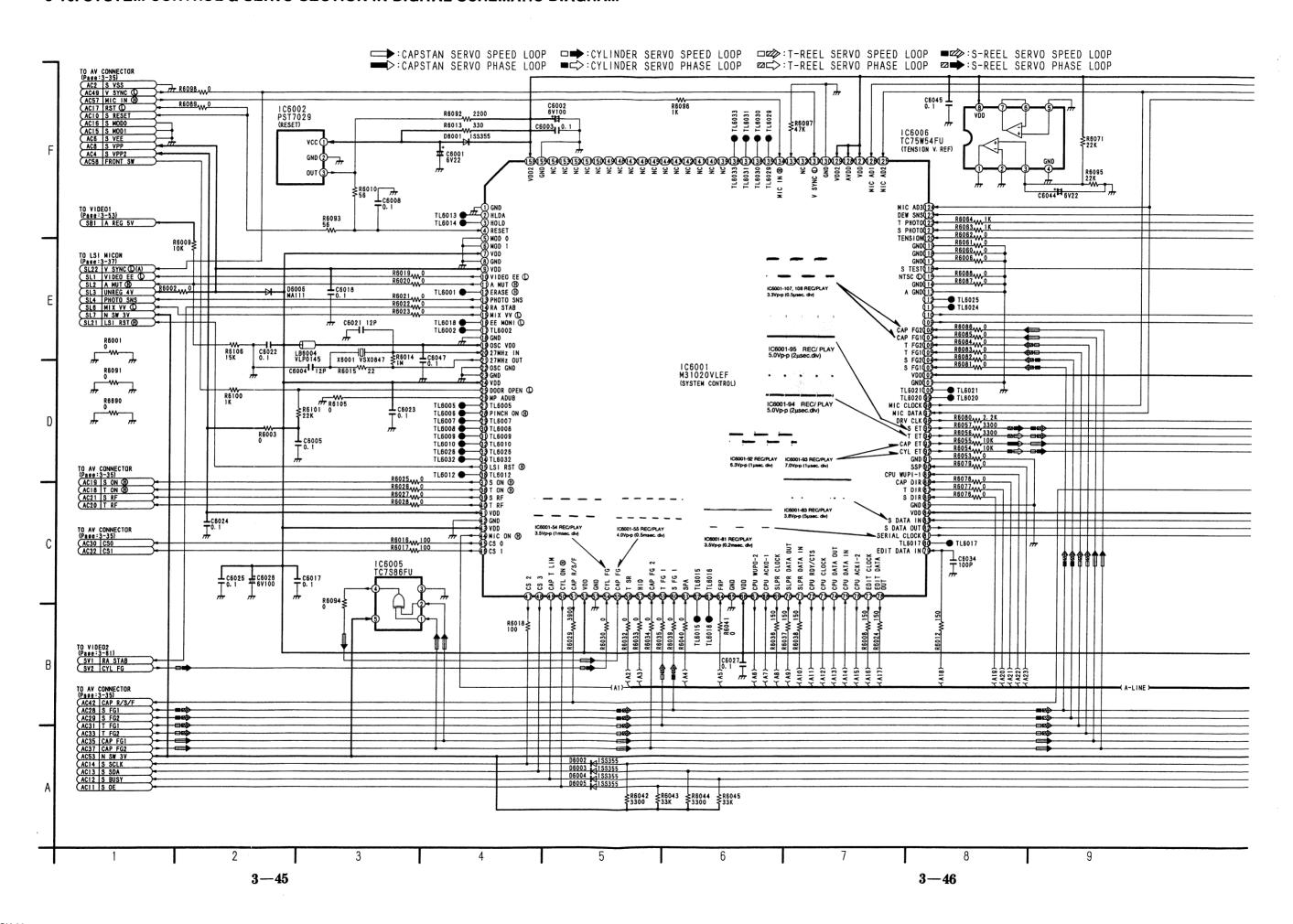
REF. NO.		QR2001			QR2002	2		QR200	3				T	
MODE	E	С	В	E	С	В	E	С	В		T			
STOP	0	3.2	0	0	3.1	0	3.2	0	3.2	1				
PLAY	0	3.2	0	0	3.1	0	3.2	0	3.2					
REC	0	3.2	0	0	3.1	0	3.2	0	3.2					
F.F	0	3.2	0	0	3.1	0	3.2	0	3.2					
REW	0	3.2	0	0	3.1	0	3.2	0	3.2					

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VIDE-V25296 / DRUCK 19

3-15. CLOCK CHANGE SCHEMATIC DIAGRAM





R6067 1K R6068 330 R6069 330 Q6001 2SB970 X ₹86070 (MIC VDD) ₹86102 (MIC VDD) ₹86102 3300 ₹86103 R6065_W1K 086007 188355 QR6001 UN5213 (LOAD ON(D:ON) #C6019 _ C6020 _ C6035 _ C6009 _ C6010 _ C6011 _ C6012 _ C6012 _ C6022 LB6001 VLP0145 LB6003 VLP0145 IC6003 MC14013BF (S DIR/T DIR) IC6004 TC7W74FU (CAP DIR) NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST. 10 12 13 3-47

IC6001 (M31020VLEF): SYSTEM CONTROL MICROPROCESSOR

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	GND	_		55	CAP.FG	I	CAPSTAN 2 PHASE FG
2	HLDA	0	Low FIX	56	TSR	1	HID PHASE REF. SIGNAL
3	HOLD	0	Low FIX	57	HID	1	HEAD SELECT SW
4	RESET	1	RESET INPUT	58	CAP.FG2	1	CAPSTAN FG 2
5	MOD0	1	SIGNAL CHIP MODE SELECT	59	T.FG1		T REEL FG 1
6	MOD1	1	SIGNAL CHIP MODE SELECT	60	S.FG1		S REEL FG 1
7	VDD	_	VDD	61	SPA	1	
8	GND	_	GND	62	_	0	FIX Low OUTPUT
9	VDD	_	VDD	63		0	FIX Low OUTPUT
10	VIDEO.EE©	0	EE/VV SELECT OUTPUT (EE: L)	64	FRP	T	FRAME REF. SIGNAL
11	A.MUT(H)	0	AUDIO MUTE (H)	65	GND	T —	GND
12	ERASEH	0	ERASE ON (H)/OFF	66	VDD	 	POWER
13	PHOTO.SNS	0	TAPE SENSOR LED (ON: L)				SYS CTL μ-PROCESSOR ↔ LSI
14	RASTAB	0	S TAB OUTPUT	67	CPU WUP0-2	0	(OMMUNICATION)
15	MIX.VV(L)	0	MIX OUTPUT (VV MODE): L	†		<u> </u>	SYS CTL μ-PROCESSOR ↔ LSI
16	EE.MONI(L)	0	EE MONITOR OUT: L	68	CPU ACK0-1	0	(OMMUNICATION)
17	LL.MOINE	0	FIX LOW OUTPUT	<u> </u>		 	SERIAL/PARALLEL
18	GND		GND	69	SLPR.CLOCK	0	CONVERSION EXPANSION IC
19	OSC VDD		OSC POWER	┼	SLPR. DATA.	-	SERIAL/PARALLEL
20	27MHz. IN	1	27MHz INPUT	70	OUT	0	CONVERSION EXPANSION IC
21	27MHz. OUT	0	27MHz OUTPUT	 	SLPR. DATA.		SERIAL/PARALLEL
22	OSC GND		OSC GND	71	IN		CONVERSION EXPANSION IC
23	GND	_	GND	├			SYS CTL µ-PROCESSOR ← LSI
24	VDD	=	POWER	72	CPU RDY/CTS	0	COMMUNICATION
	VUU		FRONT DOOR OPEN DETECT INPUT				SYS CTL μ-PROCESSOR ↔ LSI
25	DOOR OPEN®	1	(OPEN: L, CLOSE/NO DOOR: H)	73	CPU CLOCK	- 1	SERIAL SLAVE CLOCK
26	MP ADUB	0	FIX Low OUTPUT	 			SYS CTL μ-PROCESSOR ↔ LSI
27	MP ADUB	0	FIX Low OUTPUT	74	CPU DATA OUT	0	SERIAL DATA OUTPUT
28	PINCH ON(H)	0	PINCH SOLENOID CONTROL OUTPUT				SYS CTL µ-PROCESSOR ↔ LSI
29	PINCH ONE		FIX Low OUTPUT	75	CPU DATA IN	- 1	SERIAL DATA INPUT
30		0	FIX Low OUTPUT	<u> </u>			SYS CTL μ-PROCESSOR ↔ LSI
31		0	FIX Low OUTPUT	76	CPU ACKI-2	0	COMMUNICATION
			TRAY MOTOR VOLTAGE CONTROL OUTPUT				.
32		0	S REEL SOLENOID CONTROL OUTPUT	77	EDIT.CLOCK	0	SYS CTL µ-PROCESSOR ← EDIT
33		0	T REEL SOLENOID CONTROL OUTPUT	 			MICON SERIAL MASTER CLOCK
34		0		78	EDIT. DATA.	0	SYS CTL μ-PROCESSOR ← EDIT
35	LSI RST®	0	RESET High OUTPUT	<u> </u>	OUT		MICON SERIAL DATA OUTPUT
36	_	0	FIX LOW OUTPUT	79	EDIT. DATA.	1	SYS CTL μ-PROCESSOR ←→ EDIT
37	S.ON(H)	0	S REEL ON/OFF CONTROL		IN		MICON SERIAL DATA INPUT
38	T.ON®	0	T REEL ON/OFF CONTROL	80		0	FIX Low OUTPUT
39	S.RF	0	S REEL ROTATION DIRECTION CONTROL	81	SERIAL.CLOCK	0	TIMER ↔ SYS CTL μ-PROCESSOR
40	T.RF	0	T REEL ROTATION DIRECTION CONTROL				MASTER CLOCK
41	VDD		POWER	82	S. DATA. OUT	0	TIMER ←→ SYS CTL μ-PROCESSOR
42	GND	_	GND				SIRIAL DATA OUTPUT
43	VDD	_	POWER	83	S. DATA, IN	1	TIMER ↔ SYS CTL μ-PROCESSOR
44	MIC.ON⊕	0	POWER FOR MIC				SIRIAL DATA INPUT
45	CS0	0	SERIAL/PARALLEL CONVERSION IC CHIP	84	VDD	_	POWER
-10			SELECT SIGNAL	85	GND		GND
46	CS1	0	SERIAL/PARALLEL CONVERSION IC CHIP	86	S. DIR		S REEL ROTATION DIRECTION DET.
40	001		SELECT SIGNAL	87	T. DIR	1	T REEL ROTATION DIRECTION DET.
47	CS2	0	SERIAL/PARALLEL CONVERSION IC CHIP	88	CAP. DIR	ı	CAPSTAN ROTATION DIRECTION DET
4′	032		SELECT SIGNAL	89	CPU WUPI-1	0	SYS CTL μ-PROCESSOR ↔ LSI
40	000		SERIAL/PARALLEL CONVERSION IC CHIP	09	CFO WOFFI	U	PROCESSOR COMMUNICATION
48	CS3	0	SELECT SIGNAL	90	SSP	ı	SECTOR START PULSE INPUT
49	CAP.T.LIM	0	CAP TORQUE LIMIT	91	_	_	
50	CYL.ON(L)	0	CYL DRIVING: Low	92	CYL. ET	0	CYLINDER TORQUE OUTPUT (12bit PWM
51	CAP.R/S/F	0	CAPSTAN ROTATION DIRECTION CONTROL	93	CAP. ET	0	CAPSTAN TORQUE OUTPUT (12bit PWM)
52	VDD		POWER	94	T. ET	0	T REEL TORQUE OUTPUT (12bit PWM)
	GND		GND	95	S. ET	0	S REEL TORQUE OUTPUT (14bit PWM)
53							

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
97	MIC. DATA	1/0	MIC SERIAL DATA	127	VDD		REF. POWER FOR ANALOG
98	MIC. CLK	0	MIC SERIAL CLOCK	128	AVDD	_	ANALOG POWER
99	_	0	TIMER SERIAL CLOCK (500µ sec.)	129	VDD2		POWER FOR BUS
100	_	0	SYS. CTL MAIN ROUTIN (20msec.)	130	GND	—	GND
101	GND	_	GND	131	VSYNC(L)	1	V SYNC INPUT (SYNC EXIST: L)
102	VDD		POWER	132	_	0	
103	S. FG1	ı	S REEL FG 1	133	_	1	GND (VIA 47k Resistor)
104	S. FG2	J	S REEL FG 2	134	MIC INH	1	MIC INPUT (MIC IN: H)
105	T. FG1	1	T REEL FG 1	135	_	0	FIX Low OUTPUT
106	T. FG2		T REEL FG 2	136		0	FIX Low OUTPUT
107	CAP. FG1	-	CAPSTAN FG 1	137		0	FIX Low OUTPUT
108	CAP. FG2	1	CAPSTAN FG 2	138	_	0	FIX Low OUTPUT
109	LOAD®	0	LOADING MOTOR FORWARD OUTPUT	139		0	
110	UNLOAD⊕	0	LOADING MOTOR REVERSE OUTPUT	140	_	0	FIX Low OUTPUT
111	_	0	TRAY MOTOR FORWARD OUTPUT	141		0	FIX Low OUTPUT
112		0	TRAY MOTOR REVERSE OUTPUT	142	_	0	FIX Low OUTPUT
113	A GND	_	GND	143		0	FIX Low OUTPUT
114	GND	_	GND	144	_	0	FIX Low OUTPUT
115	NTSC	I	NTSC = LOW/PAL = HIGH	145	_	0	FIX Low OUTPUT
116	S. TEST	1	EVR ADJ INPUT	146		0	FIX Low OUTPUT
117	-	_	VIA RESISTOR GND	147		0	FIX Low OUTPUT
118		_	VIA RESISTOR GND	148		0	FIX Low OUTPUT
119		_	VIA RESISTOR GND	149		0	FIX Low OUTPUT
120	TENSION	ı	TAPE TENSION A/D INPUT	150		0	FIX Low OUTPUT
121	S. PHOTO	ı	S PHOTO SENSOR INPUT (BLACK TAPE: L)	151	_	0	FIX Low OUTPUT
122	T. PHOTO	ı	T PHOTO SENSOR INPUT (BLACK TAPE: L)	152		0	FIX Low OUTPUT
123	DEW. SNS	1	DEW SENSOR INPUT	153		0	FIX Low OUTPUT
124	MIC. AD3	ı	A/D INPUT 3 FOR MIC	154		0	FIX Low OUTPUT
125	MIC. AD2	1	A/D INPUT 2 FOR MIC	155	GND	_	GND
126	MIC. AD1	1	A/D INPUT1 FOR MIC	156	VDD 2		POWER

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (Mini DV : SP MODE)
REF. NO. | IC6001

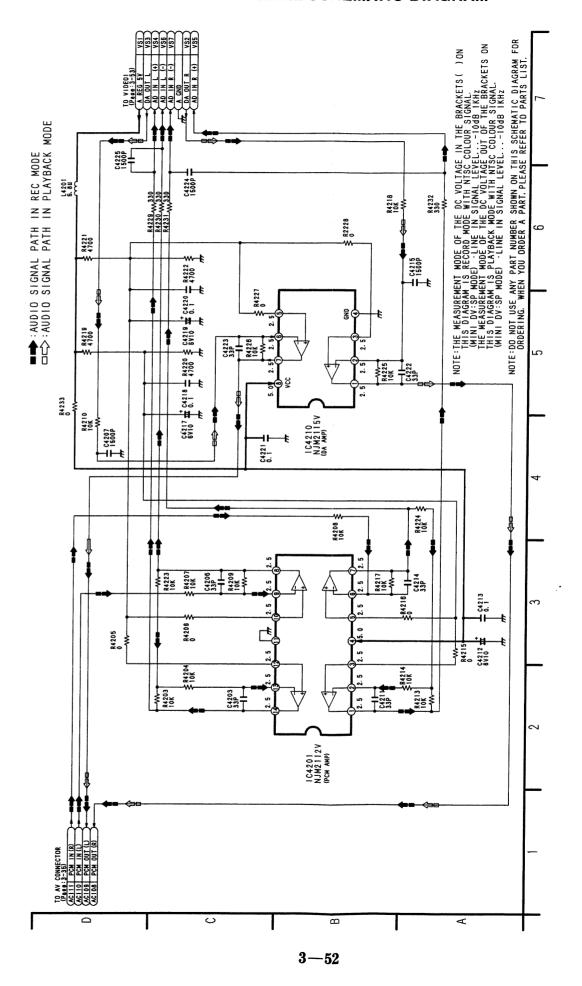
MODE	REF. NO.										IC	6001									
PLAY 0	MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FEG. 0 0 0 2.6 0 0 3.6 0 0 3.6 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 3.6 3.6 0 0 3.6 3.6 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6 3.6 0 0 0 3.6	STOP	0	0	0	2.7	0	0	3.6	0	3.6	0	0	0	0	3.6	3.6	3.6	0	0	3.6	1.8
FF	PLAY	0	0	0	2.7	0	0	3.6	0	3.6	3.6	0	0	3.6	3.6	3.6	3.6	0	0	3.6	1.8
REF. NO.	REC	0	0	0	2.6	0	0	3.6	0	3.6	0	0	3.6	3.6	0	3.6	3.6	0	0	3.6	1.8
REF. NO.	F.F	0	0	0	2.7	0	0	3.6	0	3.6	0	0	0	3.6	3.6	3.6	3.6	0	0	3.6	1.8
MODE	REW	0	0	0	2.6	0	0	3.6	0	3.6	0	0	0	0	3.6	3.6	3.6	0	0	3.6	1.8
STOP 1.8	REF. NO.										IC	6001									
PLAY 1,7 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 3,6 0,1 0 0 0 3,6 0,1 0 0 0 3,6 3	MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC 18	STOP	1.8	0	0	3.6	0.1	0	0	0	0	0	0	3.6	0	0	0	0	0	0	3.6	0
FF 12	PLAY	1.7	0	0	3.6	0.1	0	0	3.6	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	0
REF. NO. NODE 41	REC	1.8	0	0	3.6	0.1	0	0	3.6	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	0
REF. NO. 11 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 57 58 59	F.F	1.2	0	0	3.6	0.1	0	0	0	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	0
MODE	REW	1.7	0	0	3.6	0.1	0	0	0	0	0	0	3.6	0	0	0	0	3.6	3.6	3.6	3.6
STOP 3.6 0 3.6 3.8 0 0 0 0 0 3.6 3.8 1.8 3.8 0 0 0 1.5 0 0 0 3.3	REF. NO.										IC	5001									
PLAY 3.6 0 3.6 3.6 0.5 0.4 0.4 0.4 3.6 0 0 0 3.6 0 0 1.7 1.8 1.5	MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
FIECL 3.6 0 3.6 3.6 0.4 0.4 0.4 0.4 3.6 0 0 3.6 0 1.7 1.8 1.5 1.5 1.6 1.7 F.F. 3.6 0 3.6 3.6 3.5 0.4 0.4 0.4 3.6 1.8 1.8 3.5 0 1.7 0 1.5 1.5 1.5 0 1.6 REF. NO.	STOP	3.6	0	3.6	3.6	0	0	0	0	3.6	3.6	1.8	3.6	0	3.4	0	1.5	0	0	3.3	3.3
FF	PLAY	3.6	0	3.6	3.6	0.5	0.4	0.4	0.4	3.6	0	0	3.6	0	0	1.7	1.8	1.5	1.6	1.7	1.7
REF.MO NODE 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79		3.6	0	3.6	3.6	0.4	0.3	0.4	0.4	3.6	0	0	3.6	0	1.7	1.8	1.5	1.5	1.6	1.7	1.7
Note	F.F	3.6	0	3.6	3.6	0.4	0.4	0.4	0.4	3.6	1.8	1.8	3.6	0	1.7	0	1.5	1.5	0	1.6	1.6
MODE		3.6	0	3.6	3.6	3.6	0.3	0.4	0.4	3.6			3.6	0	1.7	0	1.5	1.5	0	1.6	1.6
STOP																					
PLAY						-				 											80
REC					_				-			3.7	3.6		3.6	3.6	0		3.6	3.7	0
FF													3.6	3.6	1.5	3.6	0	3.3	2.9	3.6	0
REF. NO. REF. NO.			_			-							-			3.6	0		2.8	3.6	0
Name			0			0	3.6			3.3		3.3	3.6	3.6	3.6	3.6	0	2.8	2.8	3.6	0
MODE STOP 36 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 91 97 98 99 91 97 98 99 91 97 98 99 91 97 98 99 91 97 98 99 91 97 98 99 91 97 98 99 91 97 97 98 99 91 97 97 98 99 99 91 97 98 99 99 91 97 97 98 99 97 97 98 99	REW	0	0	0	1.5	0	3.6	0	0	3.3	1.0	3.3	3.6	1.1	3.6	2.6	0	3.3	2.8	3.6	0
STOP	REF. NO.										IC6	001	,								
PLAY 3.1 3.0 3.5 3.6 0 0 0 0 3.7 0 0 0 0 1.9 1.6 0.3 0.1 1.8 3.7 3.7 0.1 REC 3.1 3.0 3.5 3.6 0 0 0 0 3.6 3.6 0 0 0 0 1.9 1.8 0.2 0.1 1.8 3.6 3.7 3.7 7.7 0.1 REW 3.1 3.0 3.5 3.6 0 0 3.7 3.7 3.7 0 0 0 0 1.9 1.8 0.7 0 1.8 3.6 3.7 3.7 0.1 REW 3.1 3.0 3.5 3.6 0 0 3.7 3.7 3.7 0 0 0 0 1.9 1.8 0 0.4 1.8 3.7 3.7 0.1 REW 3.1 3.0 3.5 3.6 0 3.7 3.7 3.7 0 0 0 0 1.9 1.8 0 0.4 1.8 3.7 3.7 0.1 REW 3.1 3.0 3.5 3.6 0 3.7 3.7 3.7 0 0 0 0 1.9 1.8 0 0.4 1.8 3.7 3.7 0.1 REW 3.1 3.0 3.5 3.6 0 3.7 3.7 3.7 0 0 0 0 1.9 1.8 0 0.4 1.8 3.7 3.7 0.1 REW 3.1 3.0 3.6 3.6 3.6 0 0 3.7 3.7 3.7 0 0 0 0 0 1.9 1.8 0 0.4 1.8 3.7 3.7 0.1 REW 3.1 3.0 3.6 3.6 3.3 0 3.3 0 0 0 0 0 0 0 0 0 1.9 1.8 0 0.4 1.8 3.6 3.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC 3.1 3.0 3.5 3.6 0 0 0 0 3.6 3.6 0 0 0 0 1.9 0.2 0.1 1.8 3.6 3.7 3.7 5.7 5.7 5.7 5.1 3.1 3.1 3.5 3.6 0 0 0 0 0 0 0 0 0 0 0 1.9 1.8 0.7 0 1.8 3.6 3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0 0.7 0 1.8 3.6 3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.3.7 0.1 8.8 5.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	STOP	3.6	3.6	3.7	3.6	0	3.7	3.7	3.7	3.7	0	0	0	3.6	1.8	0	1.8	3.7	3.7	0	3.6
F.F. 3.1 3.1 3.5 3.6 0 0 0 0 0 0 0 0 1.9 1.8 0.7 0 1.8 3.6 3.7 0.1		3.1	3.0	3.5	3.6	0	0	0	3.7	0	0	0	1.9	1.6	0.3	0.1	1.8	3.7	3.7	0.1	1.8
REW 3.1 3.0 3.5 3.6 0 3.7 3.7 3.7 0 0 0 0 1.9 1.8 0 0.4 1.8 3.7 3.7 0.1 REF. NO. NODE 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119			3.0	3.5		0			3.6	3.6		0	0	1.9	0.2	0.1	1.8	3.6	3.7	3.7	1.8
REF. NO. MODE 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119					_					0		_	1.9	1.8	0.7	0	1.8	3.6	3.7	0.1	1.8
MODE 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 STOP 0	k	3.1	3.0	3.5	3.6	0	3.7	3.7	3.7	0			1.9	1.8	0	0.4	1.8	3.7	3.7	0.1	1.8
STOP 0 0 3.6 1.6 1.7 1.6 1.6 1.6 1.6 1.6 0 0 0 0 0 0 1.8 3.6 3.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							,				IC6	001									
PLAY 0 3.6 1.6 1.7 1.6 1.6 1.6 1.6 1.6 0 0 0 0 0 1.8 3.6 3.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									108	109		111	112	113	114	115	116	117	118	119	120
REC 0 3.6 1.7 1.6 1.6 1.7 1.6 1.6 1.0 0 0 0 0 0 1.8 3.6 3.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									_		0	0	0	0	1.8	3.6	3.6	0	0	0	3.3
F.F. 0 3.6 1.6 1.6 1.6 1.6 1.6 0 3.3 0 0 0 0 1.8 3.6 3.6 3.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																3.6			0	0	2.7
REW 0 3.6 1.6 1.6 1.6 1.6 2.9 3.3 0 0 0 0 0 1.8 3.6 3.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		_	0		2.7
NODE 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 STOP 0 0 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.5 2.2 0 3.0 3.6 3.6 3.6 1.7 PLAY 0.1 0.1 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 1.7 F.F 0.1 0 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 1.7 F.F 0.1 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 1.6 REW 0.1 0.1 0 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 1.6 REW 0.1 0.1 0 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 3.6 3.6 3.6 3.6 1.7 REF. NO. IC6001 Id1 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 IS5 IS6 IS5 I						_										3.6					2.1
NODE		0	3.6	1.6	1.6	1.6	1.6	2.9	3.3	0			0	0	1.8	3.6	3.6	0	0	0	1.0
STOP 0 0 0 3.7 3.7 3.7 3.6 3.6 3.6 0 0 2.5 2.2 0 3.0 3.6 3.6 3.6 3.6 1.7 PLAY 0.1 0.1 0.1 0.1 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 2.3 0 0 0 3.6 3.6 3.6 3.6 1.6 REC 0 0 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 2.2 0 0 0 3.6 3.6 3.6 3.6 1.7 F.F 0.1 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 2.2 0 0 0 3.6 3.6 3.6 3.6 1.7 REW 0.1 0.1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																					
PLAY 0.1 0.1 0.1 0.1 3.7 3.7 3.7 3.6 3.6 3.6 0 0 0 2.3 0 0 0 3.6 3.6 3.6 3.6 1.6 REC 0 0 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 3.6 1.7 F.F 0.1 0 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 3.6 1.6 REW 0.1 0.1 0 3.7 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 3.6 1.6 REW 0.1 0.1 0 3.7 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 0 2.2 0 0 0 0 3.6 3.6 3.6 3.6 1.7 REF. NO.	1																				140
REC 0 0 0 3.7 3.7 3.7 3.6 3.6 3.6 0 0 2.2 0 0 0 3.6 3.6 3.6 3.6 1.7 F.F 0.1 0 0 3.7 3.7 3.7 3.6 3.6 3.6 3.6 0 0 2.2 0 0 0 3.6 3.6 3.6 3.6 1.6 REW 0.1 0.1 0 0 3.7 3.7 3.7 3.7 3.6 3.6 3.6 0 0 0 2.2 0 0 0 3.6 3.6 3.6 3.6 1.7 REF. NO. MODE 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 STOP 1.7 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7										_											1.7
F.F																					1.6
REW 0.1 0.1 0 3.7 3.7 3.7 3.6 3.6 3.6 0 0 2.2 0 0 0 3.6 3.6 3.6 3.6 1.7 REF. NO. MODE													-								1.7
NODE																					1.6
MODE 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 STOP 1.7 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7		U.1	U.1	U	3./	3./	3./	3.6	3.6	3.6			2.2	0	0	0	3.6	3.6	3.6	1.7	1.6
STOP 1.7 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	1	144	140	140	144	145 1	140	147	140	140			450	450 7	454	455 1	450 1	Т		—т	
PLAY 1.5 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.6 1.6 1.6 1.5 1.5 1.6 1.6 0 3.6 REC 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7				_			_										-122				
REC 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7												_		+							
F.F					_								_								
REW 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6								_	_					_							
REF. NO. IC6002					_											+					
MODE 1 2 3 STOP 3.6 0 3.4 STOP 3.6 0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.6	1.6	1.6	U	3.6				
STOP 3.6 0 3.4 PLAY 3.6 0 3.4 REC 3.6 0 3.4 F.F 3.6 0 3.4 REW 3.6 0 3.4 REF. NO. IC6003			2	2 1							1060	102							Т		
PLAY 3.6 0 3.4 REC 3.6 0 3.4 F.F 3.6 0 3.4 REW 3.6 0 3.4 REF. NO. IC6003				_	-						-										
REC 3.6 0 3.4 F.F 3.6 0 3.4 REW 3.6 0 3.4 REF. NO. IC6003																					
F.F 3.6 0 3.4 REW 3.6 0 3.4 REF. NO. IC6003													-		-						
REW 3.6 0 3.4			_					\dashv	\rightarrow												
REF. NO. IC6003									-+			-+	-+		+		-+				
		0.0		0.4		I					ICEO	03							L		
MODE 1 2 3 4 5 6 7 8 9 10 11 12 13 14		, T	2 1	3 1	4	5 1	6 1	7 1	вТ	a T			12	13	14			r			
STOP 3.7 0 0 0 3.3 0 0 0 3.3 0 3.3 0 3.7 3.7				_	-										-				-+	-	
PLAY 0 3.7 1.7 0 1.6 0 0 0 1.6 0 1.6 3.7 0 3.7											$\overline{}$								-+		
REC 0 3.7 1.6 0 1.6 0 0 0 1.6 0 1.6 3.7 0 3.7									+							+		-+	+		
F.F 0 3.7 1.5 0 1.5 0 0 0 1.5 0 1.6 3.7 0 3.7					_							-						+	-+		
REW 3.7 0 1.5 0 1.5 0 0 0 1.6 0 1.6 0 3.7 3.7				_	_																
5 5 1.0 6 1.0 6 6 7.0 6 7.0	112.74	5.1	<u> </u>	1.0	0]	1.0	<u> </u>		<u> </u>	1.0	<u> </u>	1.0	<u> </u>	3.1	3.1						

REF. NO.					IC6	004			 				ICE	6005			
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5			T	
STOP	0	0	0	0	3.6	3.7	3.7	3.7	0	0	0	0	3.7		T		
PLAY	1.6	1.6	0	0	3.7	3.7	3.7	3.7	1.6	1.6	0	1.8	3.7				
REC	1.6	1.6	0	0	3.7	3.7	3.7	3.7	1.6	1.6	0	1.8	3.7		T	T	
F.F	3.3	0	3.7	0	0	3.7	3.7	3.7	0	0	0	0	3.7				
REW	0	3.3	0	0	3.7	3.7	3.7	3.7	0	3.3	0	3.7	3.7				
REF. NO.									IC6006					-			
MODE	1	2	3	4	5	6	7	8									
STOP	1.8	1.8	1.8	0	0	0	0	3.6									
PLAY	1.8	1.8	1.8	0	0	0	0	3.6									
REC	1.8	1.8	1.8	0	0	0	0	3.6									
F.F	1.8	1.8	1.8	0	0	0	0	3.6									
REW	1.8	1.8	1.8	0	0	0	0	3.6									

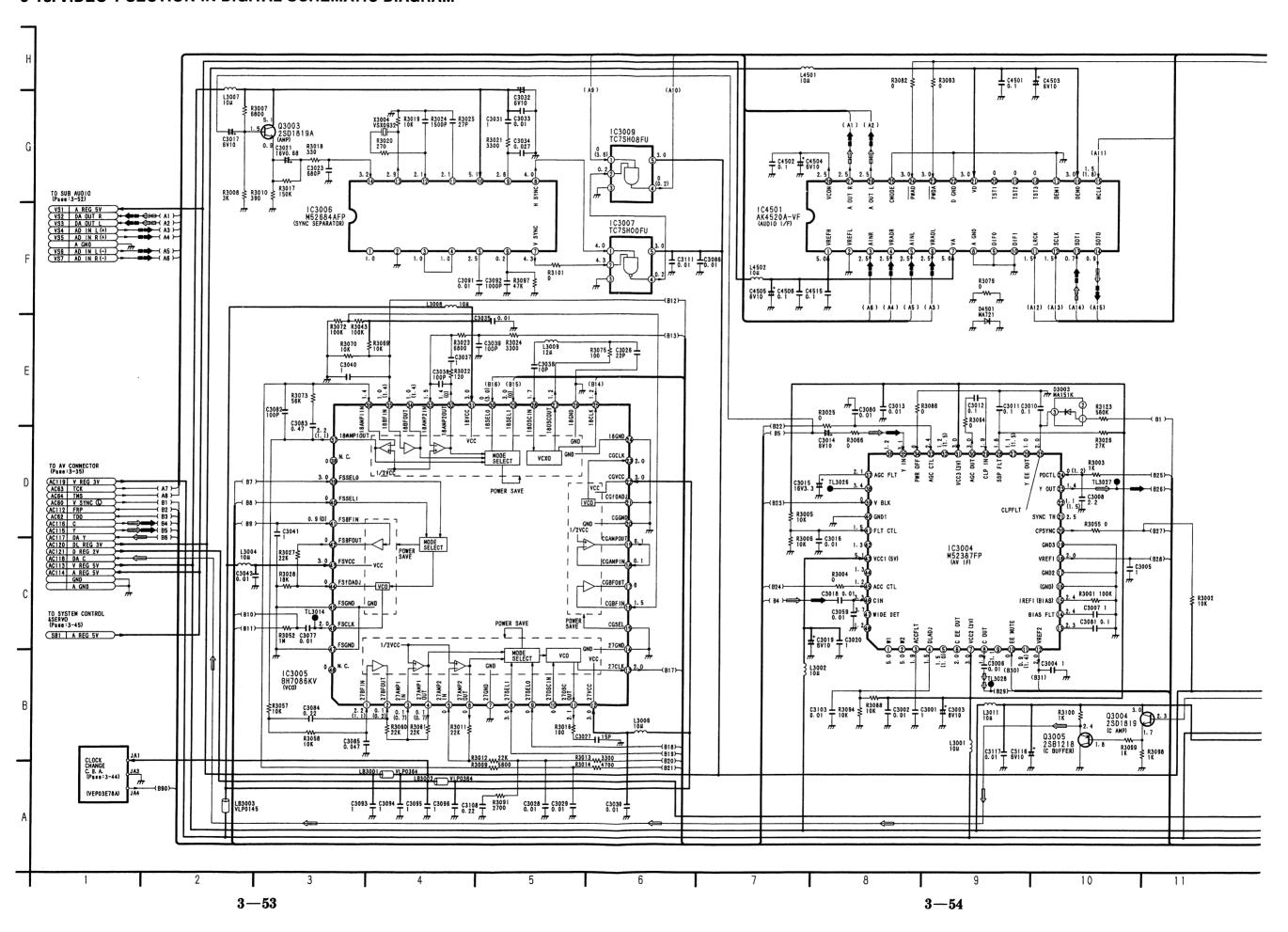
SYSTEM CONTROL & SERVO TRS DC VOLTAGE CHART (Mini DV : SP MODE)

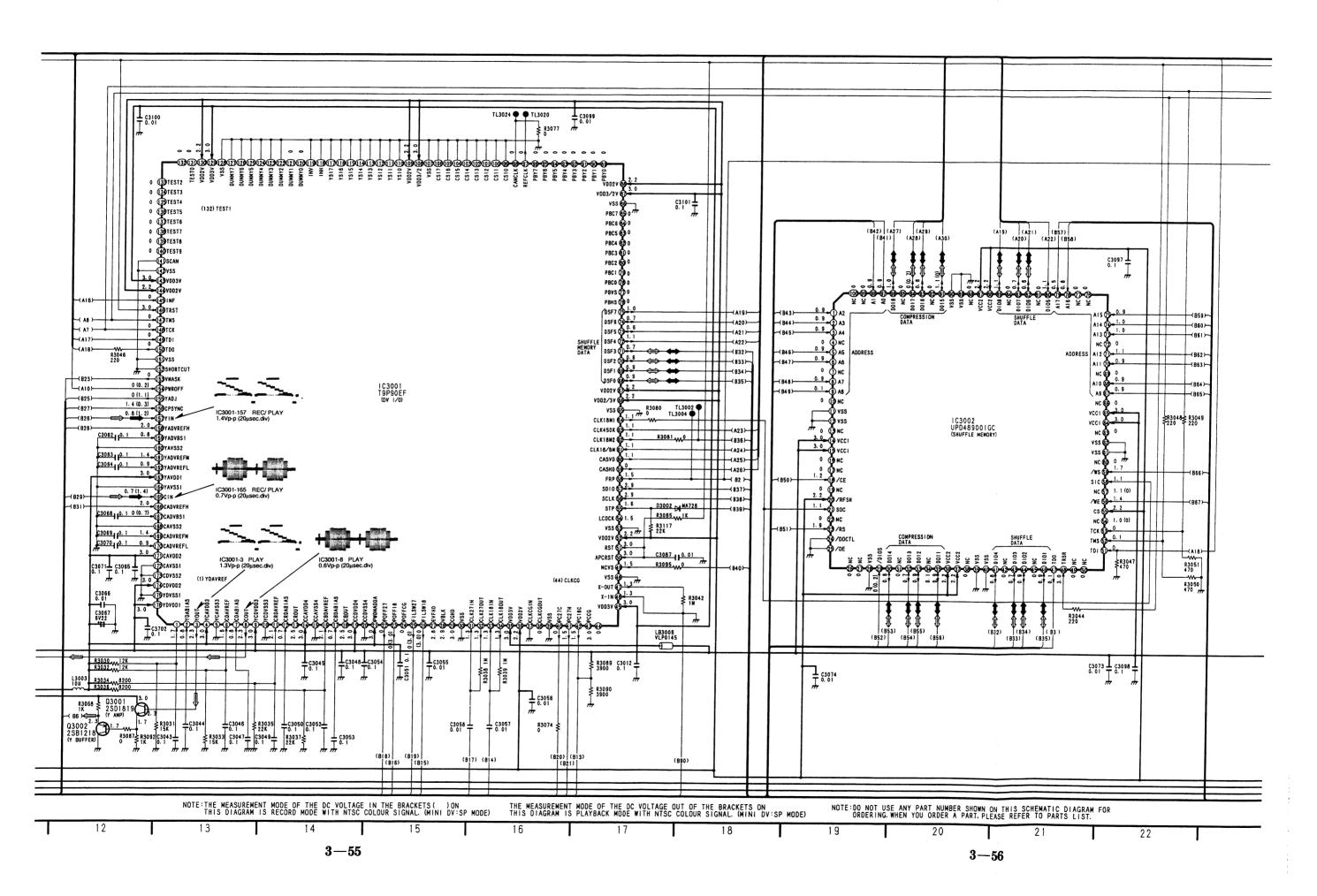
				 				 	 . ,	 • • •	 ,,	
REF. NO.		Q6001										
MODE	Ε	С	В				1					
STOP	3.7	3.7	3.6		1	1						
PLAY	3.7	3.7	3.6									
REC	3.7	3.7	3.6									1
F.F	3.7	3.7	3.6									
REW	3.6	3.7	3.6		T							
REF. NO.		QR6001	1							1		
MODE	Ε	С	В									
STOP	0	3.4	0									
PLAY	0	3.4	0									
REC	0	3.4	0									
F.F	0	3.4	0									
REW	0	3.4	0									

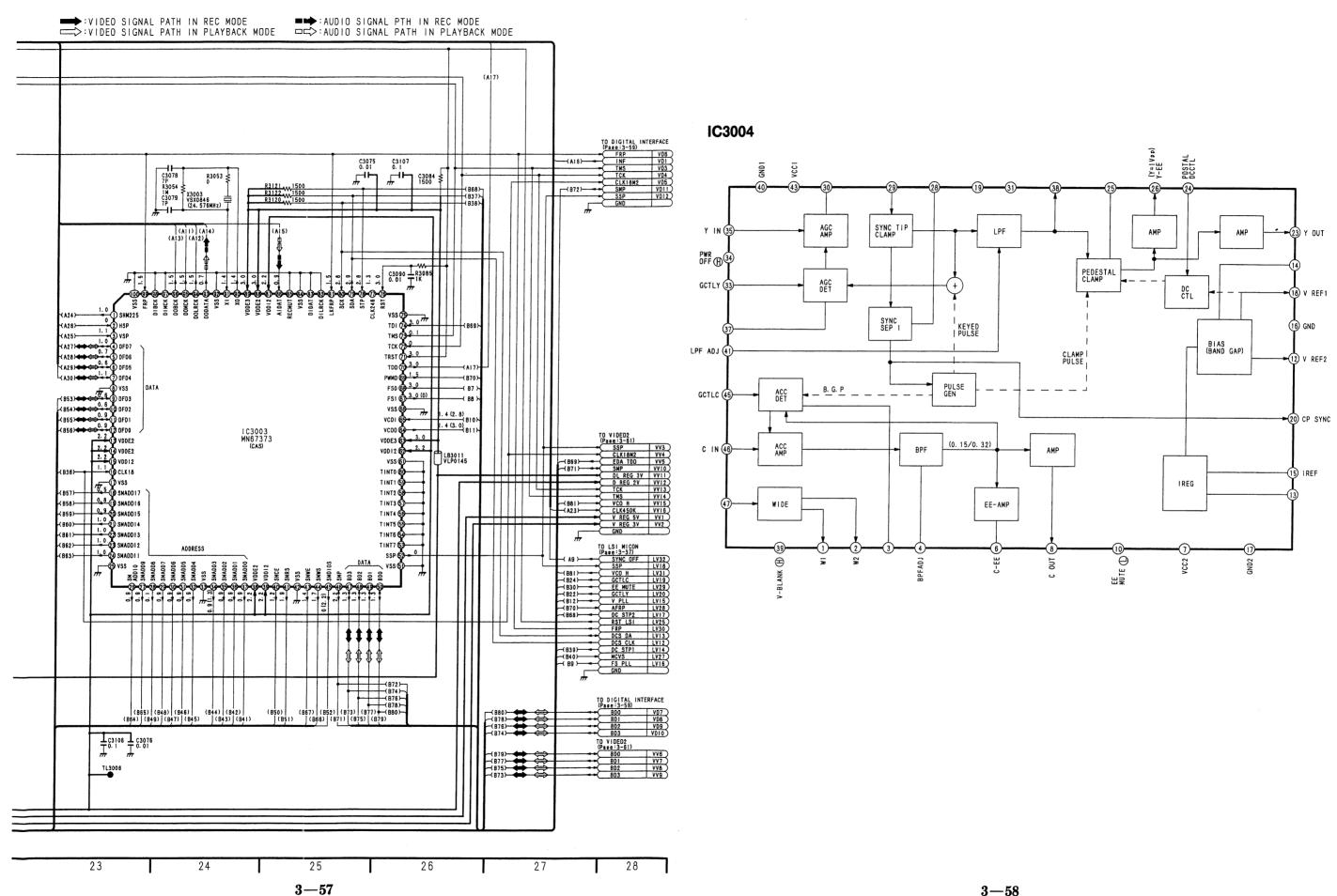
3-17. SUB AUDIO SECTION IN DIGITAL SCHEMATIC DIAGRAM

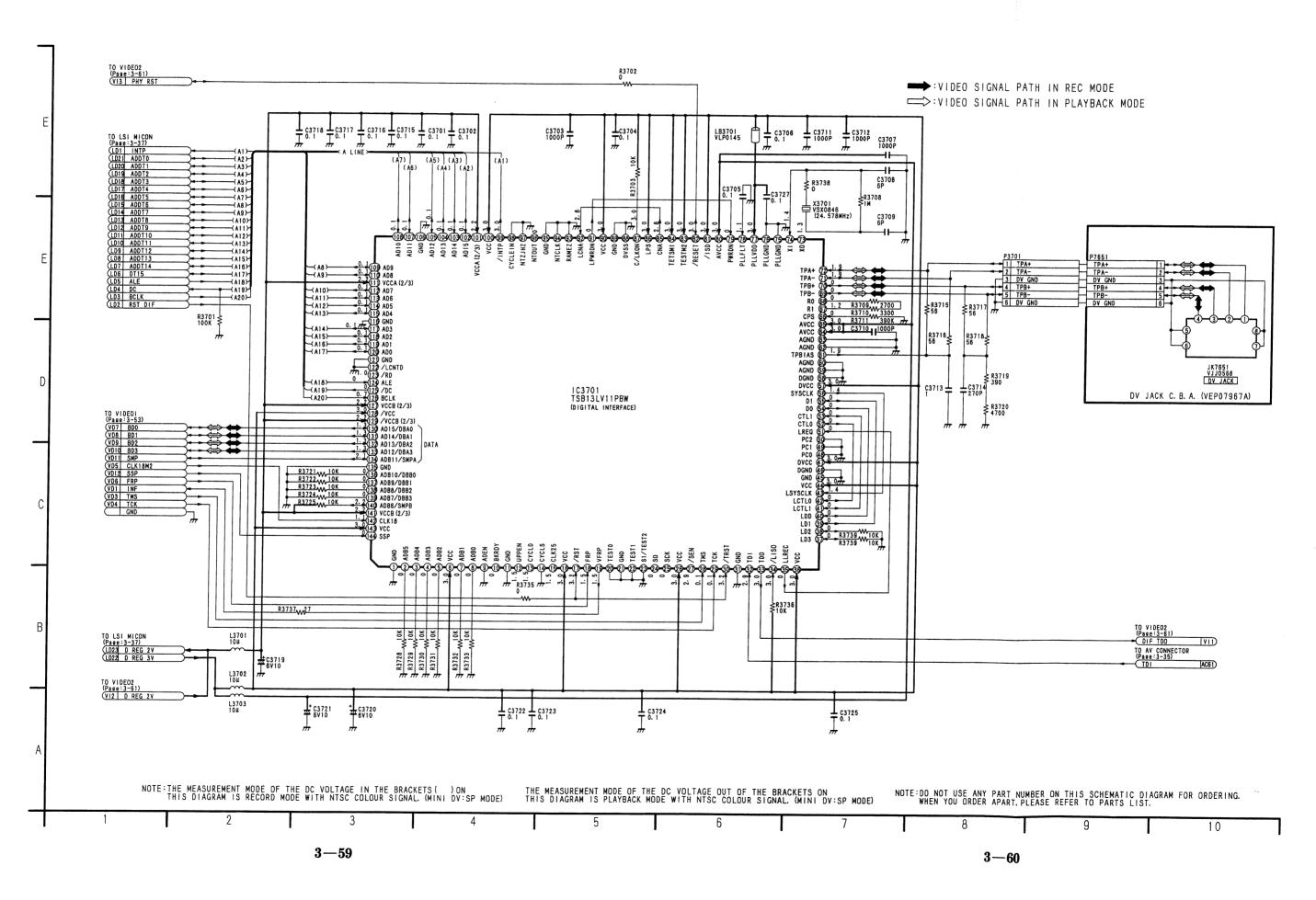


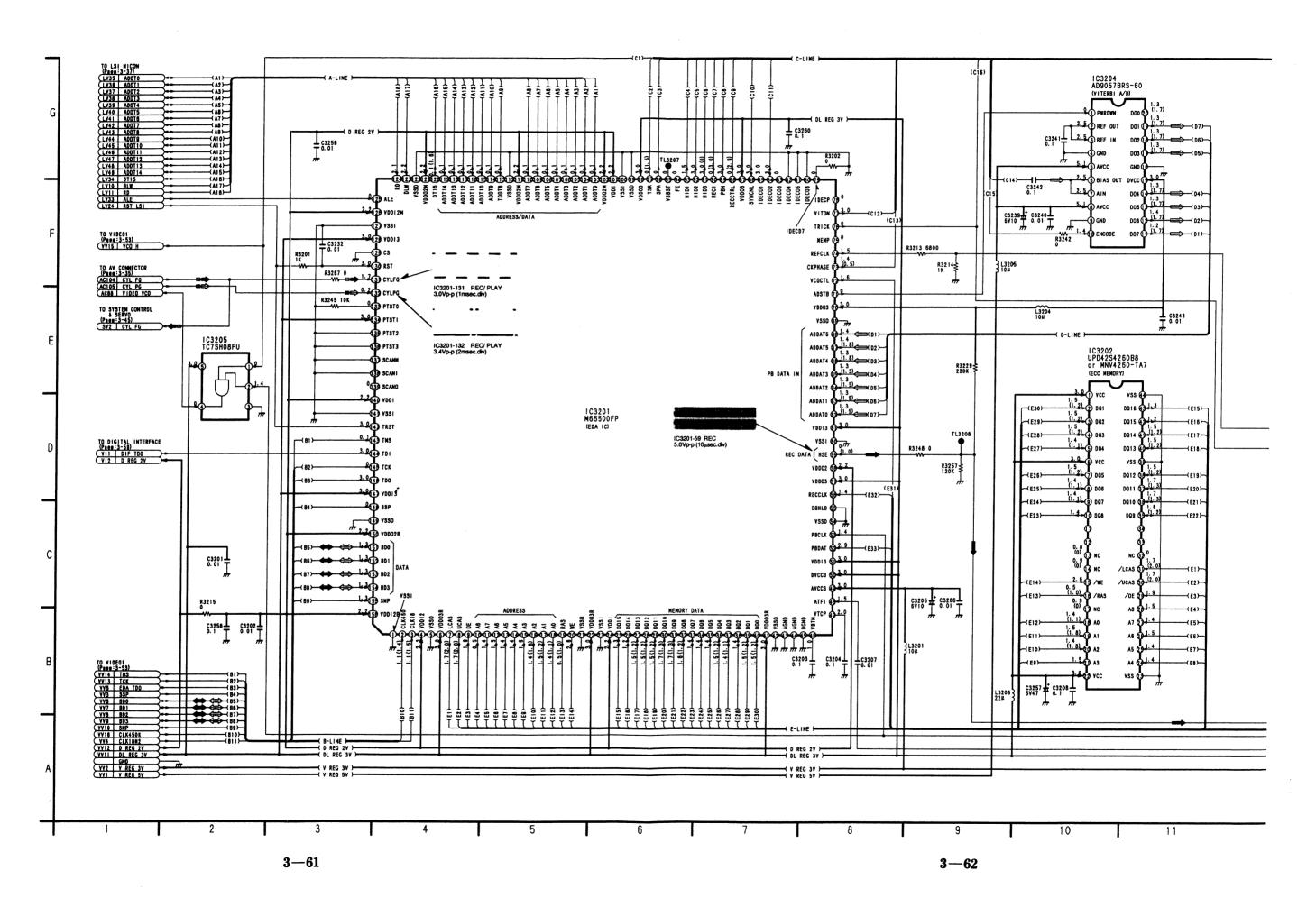
3-18, VIDEO 1 SECTION IN DIGITAL SCHEMATIC DIAGRAM

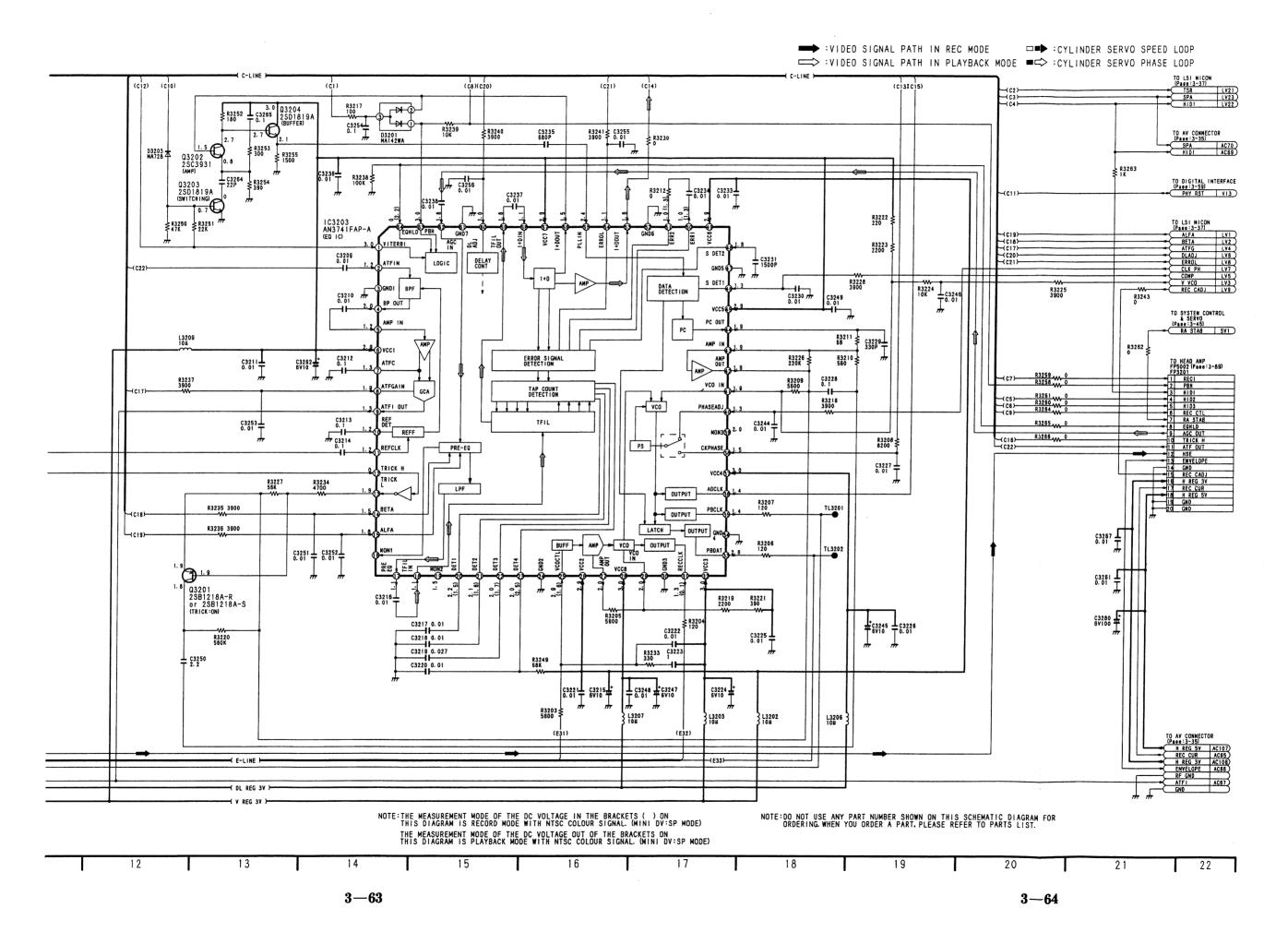


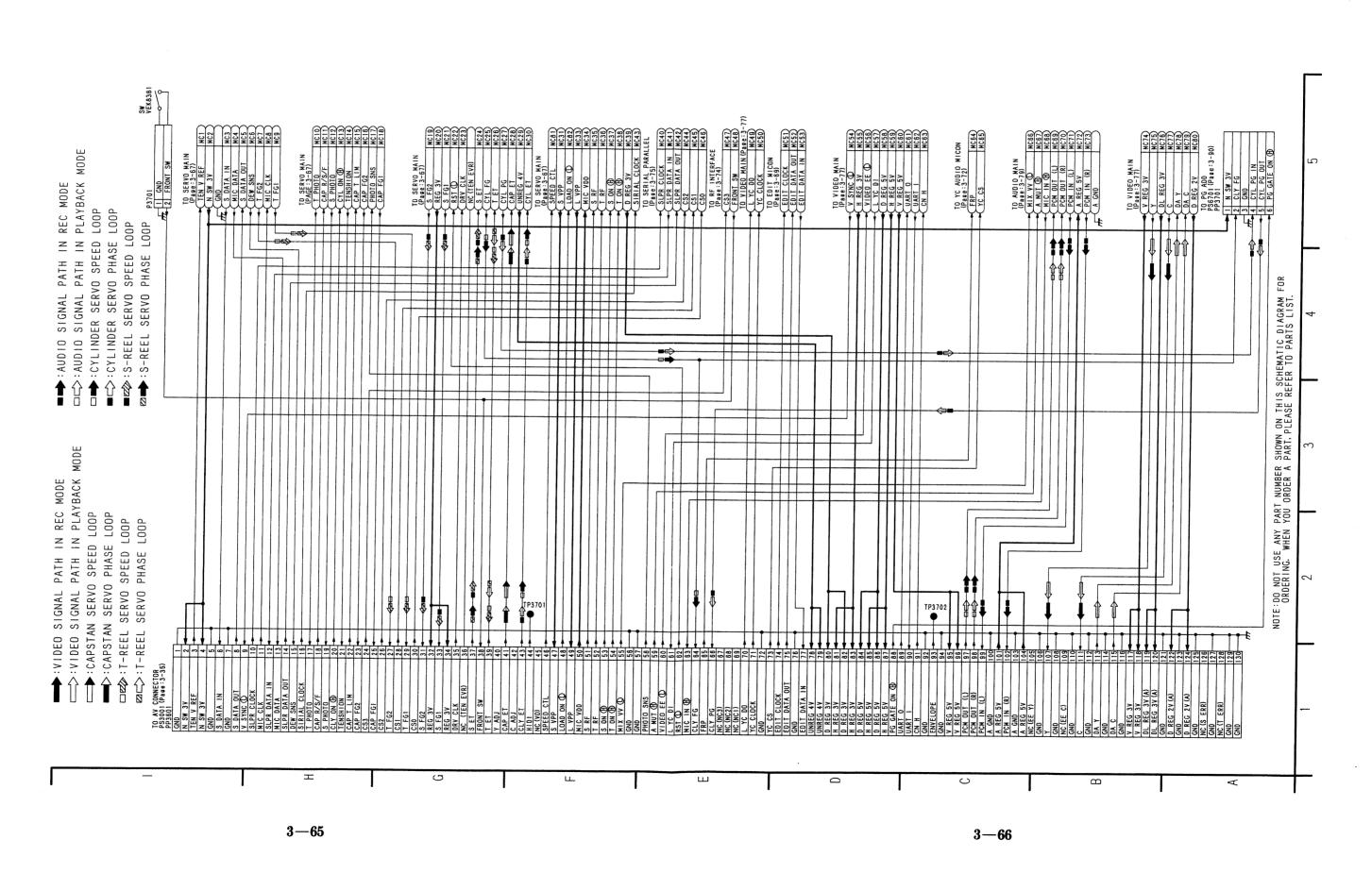




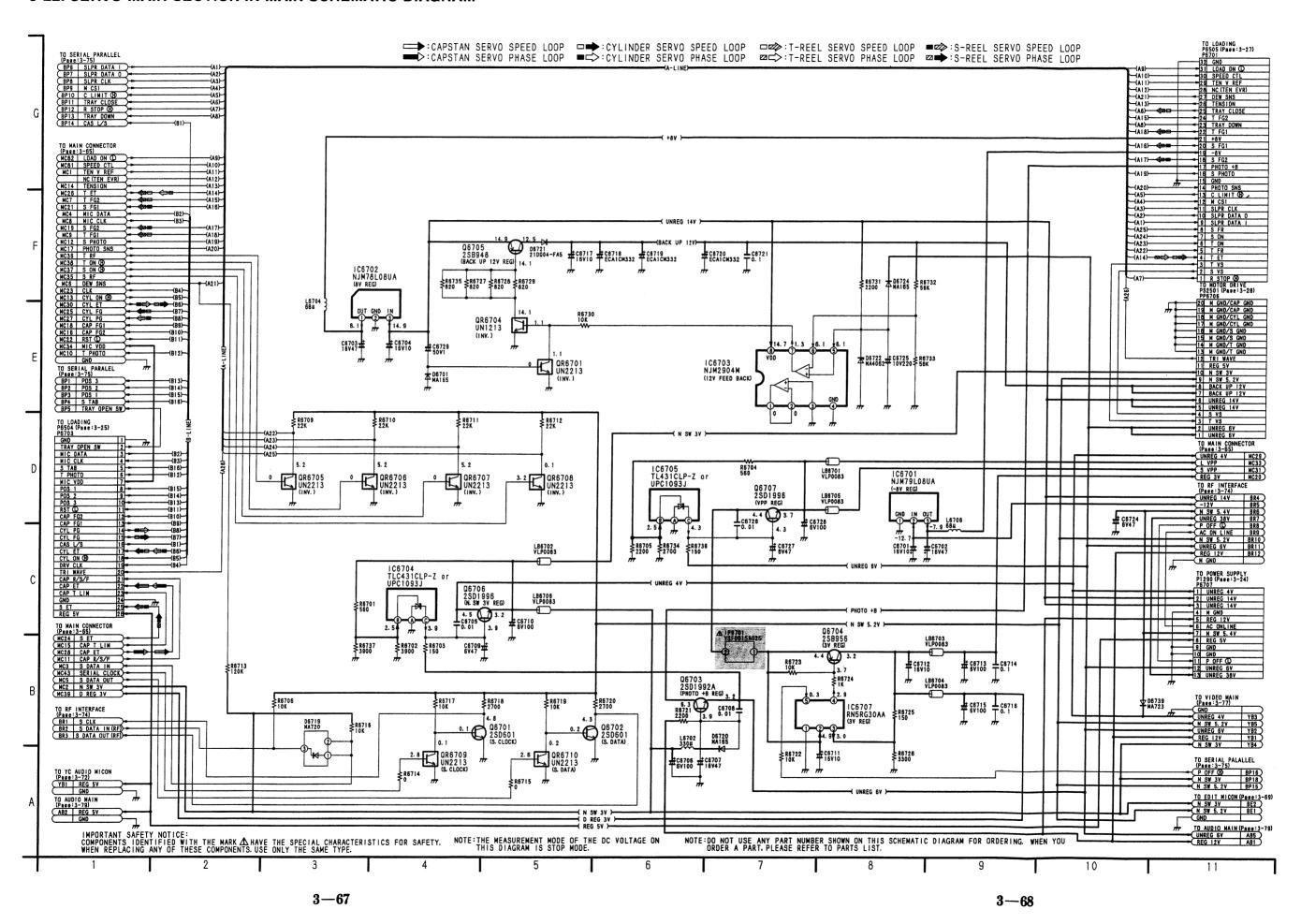


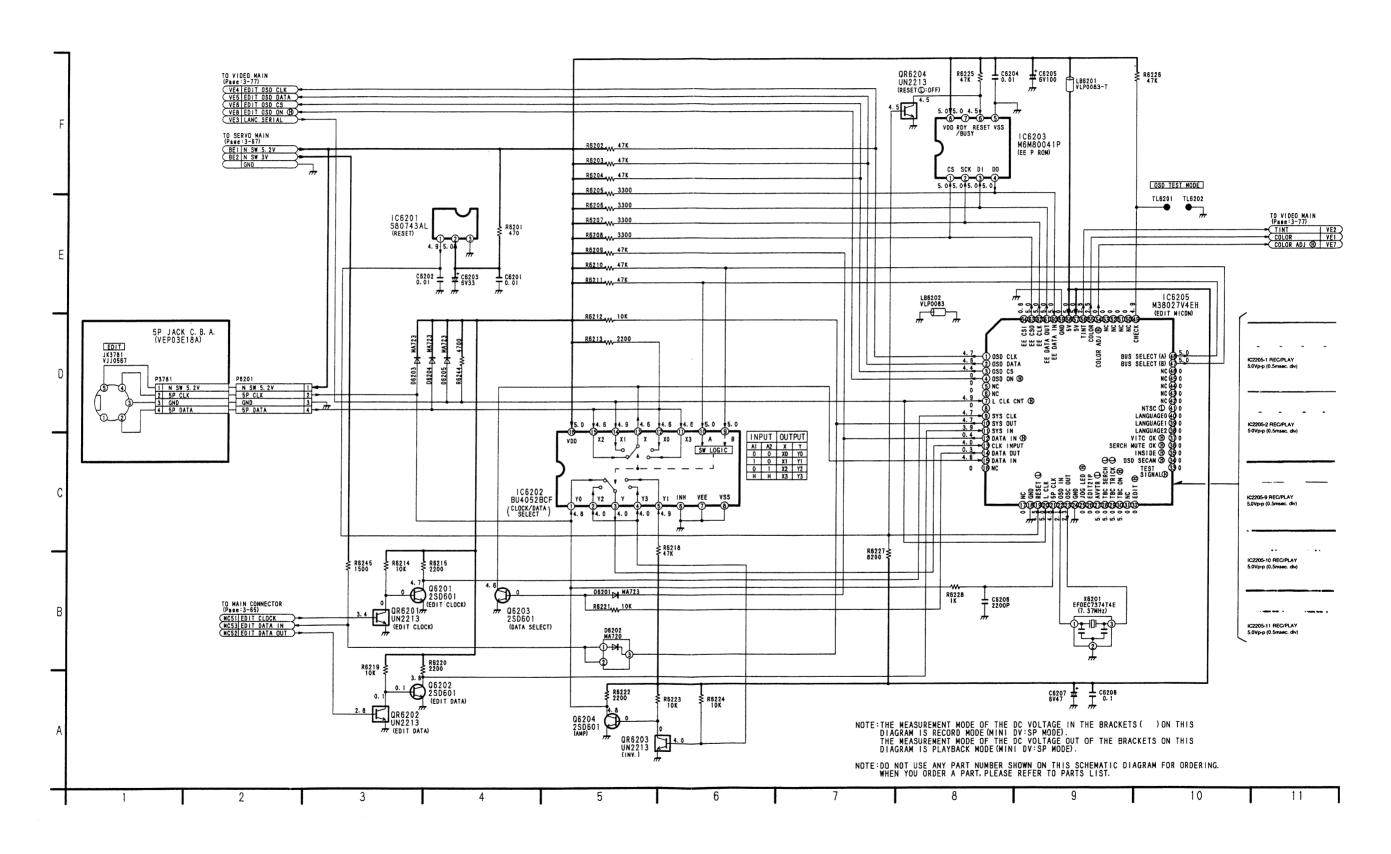






3-22. SERVO MAIN SECTION IN MAIN SCHEMATIC DIAGRAM



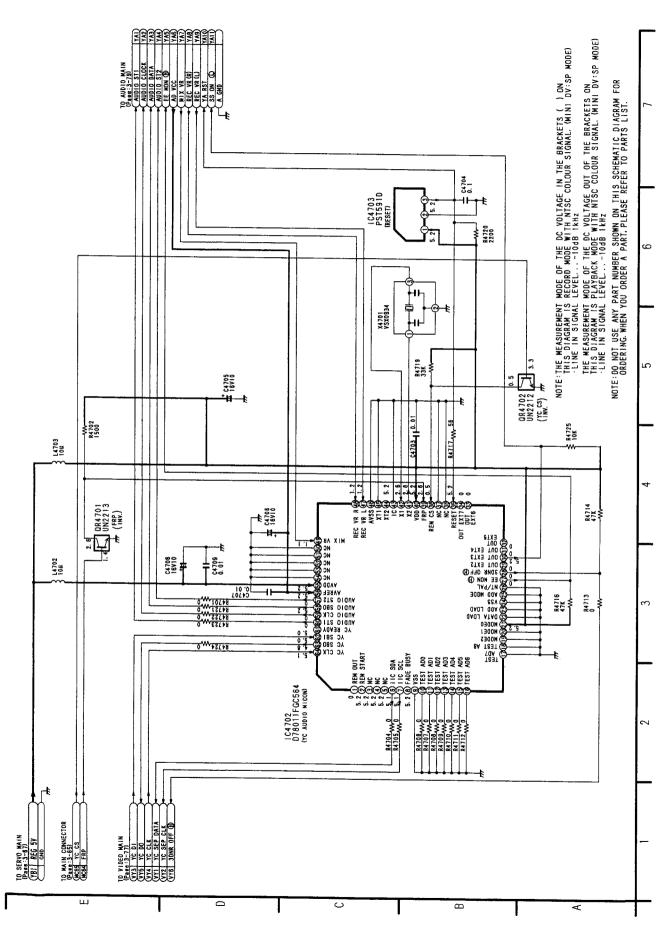


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IC6205 (M38027V4EH): EDIT MICON

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	OSD CLK	0	OSD CLOCK	33	NC		
2	OSD DATA	0	OSD DATA	34	NC	_	
3	OSD CS	0	OSD CHIP SELECT	35	INSIDE ⊕		EDIT OSD (H) SIP (L)
4	OSD ON ⊕	0	OSD ON 🕀	36	NC	_	
5	NC NC			37	NC		
6	NC			38	NC	_	
7	L CLK CNT ⊕	- 1	LANC SERIAL COUNT	39	NC	-	
8	NC			40	NC	_	
9	SYS CLK	. 1	SYSCON SERIAL CLOCK	41	NTSC (L)		NTSC L
10	SYS OUT	0	SYSCON SERIAL DATA OUT	42	NC		
11	SYS IN		SYSCON SERIAL DATA IN	43	NC		
12	DATA IN ⊕	0	DATA IN 🕀	44	NC		
13	CLK INPUT	1	SERIAL CLOCK	45	NC		
14	DATA OUT	0	SERIAL DATA OUT	46	NC	_	
15	DATA IN	_	SERIAL DATA IN	47	BUS SELECT A	0	SERIAL SELECT
16	NC			48	BUS SELECT B	0	SERIAL SELECT
17	NC			49	TL6201		
18	GND			50	NC		
19	RESET L		RESET ①	51	NC	_	
20	L CLK	١	LANC CLOCK	52	NC		
21	5P CLK	- 1	5P CLOCK	53	NC		
22	OSD IN	1	MICON CLOCK	54	COLOR ADJ ⊕	0	COLOR ADJUSTMENT (H)
23	OSD OUT	0	MICON CLOCK	55	COLOR	0	COLOR
24	GND			56	TINT	0	TINT
25	NC			57	5V	I	
26	NC	_		58	5V		
27	NC			59	GND	_	
28	NC			60	EE DATA IN	Ī	E ² PROM DATA IN
29	NC			61	EE DATA OUT	0	E ² PROM DATA OUT
30	NC			62	EE CLK	0	E ² PROM SERIAL CLOCK
31	NC			63	EE CS	0	E ² PROM CHIP SELECT
32	NC	_		64	NC		

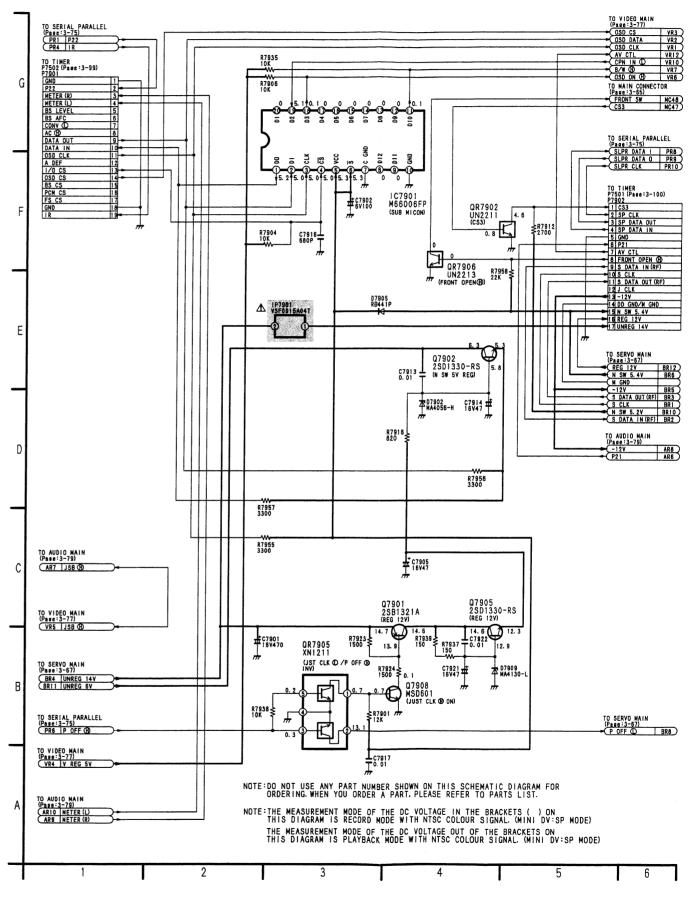
3-24. Y / C AUDIO MICON SECTION IN MAIN SCHEMATIC DIAGRAM



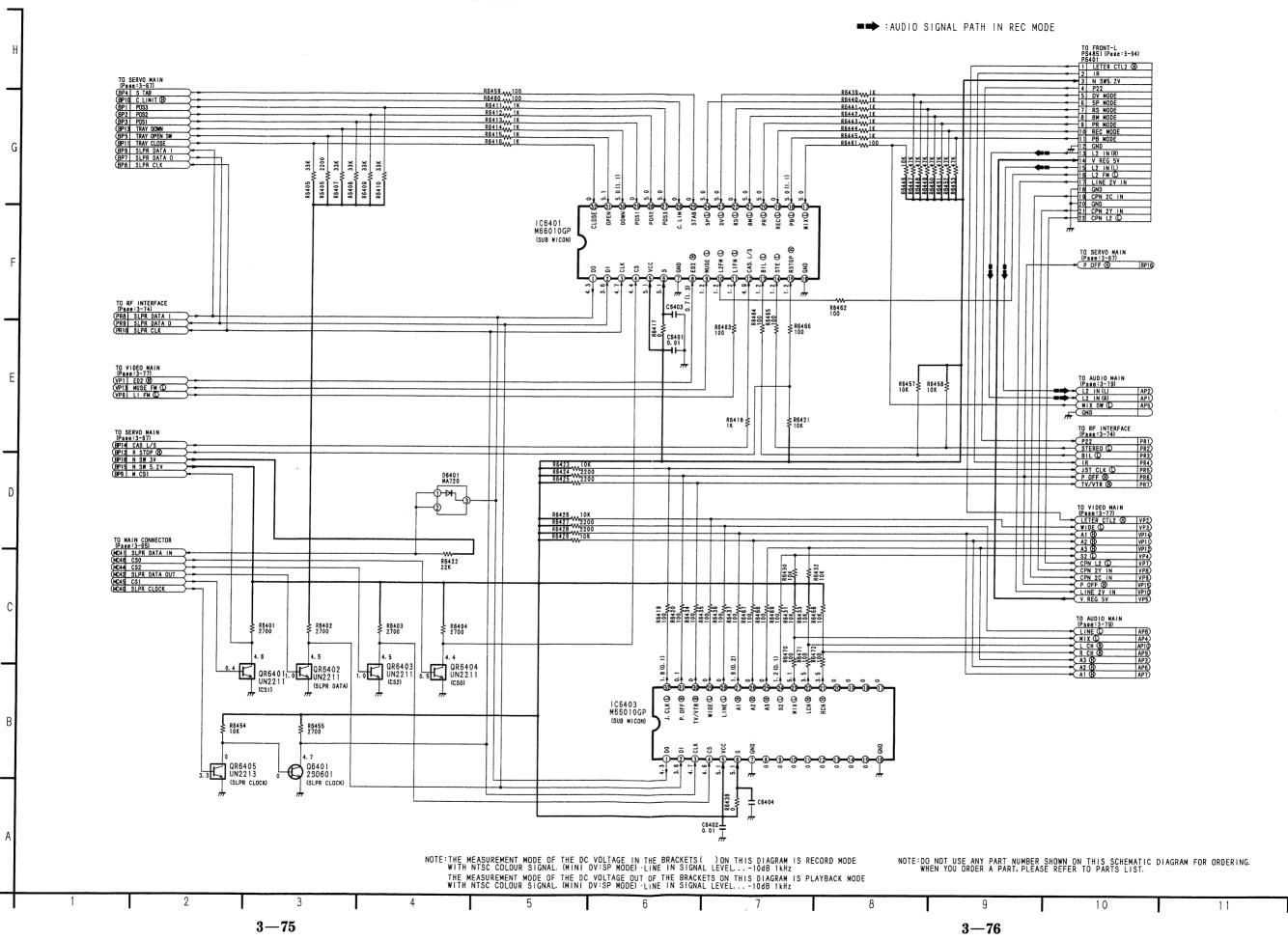
IC4702 (D78011FGC564): YC AUDIO MICON

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
1	REM OUT	0	REMOCON SIGNAL OUT	33	NC	_	
2	NC			34	NC	_	
3	NC	_		35	RESET	1	RESET
4	NC			36	GND	_	
5	NC			37	GND	_	
6	IIC SDA	1	IIC SERIAL DATA	38	REM CS	1	CONTROL SERIAL CS
7	IIC SCL	1	IIC SERIAL DATA	39	FRP	1	FRAME SINCHRO PALUS
8	NC			40	VDD		POWER
9	VSS	_	GND	41	X2	0	
10	GND			42	X1	1	
11	GND	_		43	GND	_	
12	GND			44	NC	—	
13	GND	_		45	GND	_	
14	GND			46	GND	_	
15	GND	_		47	REC VR L	1	REC VR (L)
16	GND			48	REC VR R	1	REC VR (R)
17	GND			49	MIX VR	-	MIX VR
18	GND	_		50	GND	_	
19	GND			51	GND	_	
20	GND	_		52	GND	_	
21	MODE 0	ı	MODE SELECT 0	53	GND	1	
22	GND	-		54	GND		
23	GND	_		55	AVDD	-	POWER
24	GND	_		56	AVREF	_	AV REF
25	GND	_		57	AUDIO ST2	0	AUDIO STOROBE 2
26	GND	_		58	AUDIO SBO	0	AUDIO SERIAL OUT
27	EE MON (H)	0	EE MONITOR (H)	59	AUDIO CLK	0	AUDIO CLOCK
28	3 DNR OFF ⊕	0	THREE DIMENSIONS NR OFF (H)	60	AUDIO ST1	0	AUDIO STOROBE 1
29	NC	_		61	NC	_	
30	SS ON 🕠	0	SERACH SOUND ON ①	62	YC SBI	1	YC SERIAL BUS IN
31	NC			63	YC SBO	0	YC SERIAL BUS OUT
32	ŊC			64	YC CLK	1	YC CLOCK

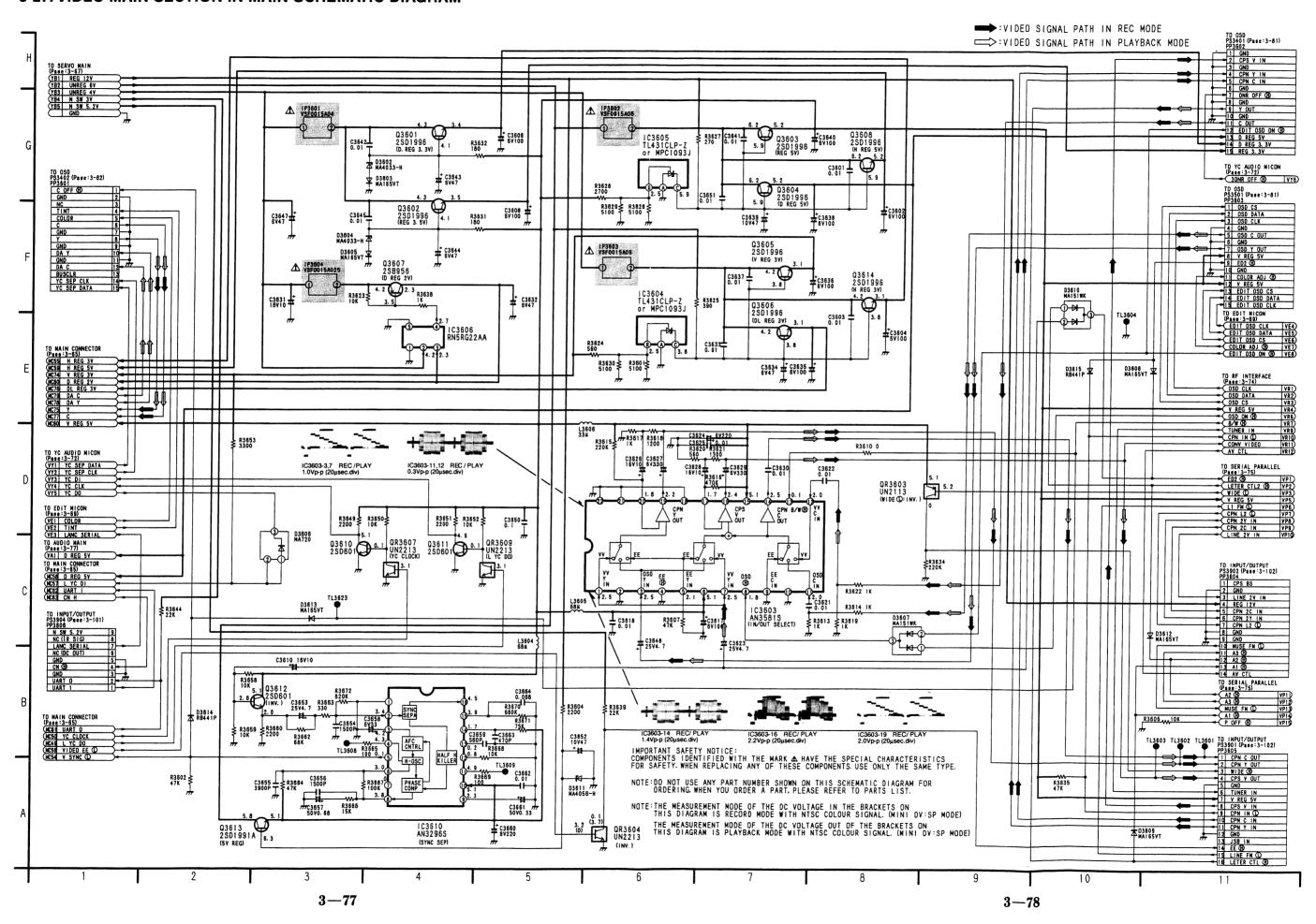
3-25. RF INTERFACE SECTION IN MAIN, 5P JUCK SCHEMATIC DIAGRAMS



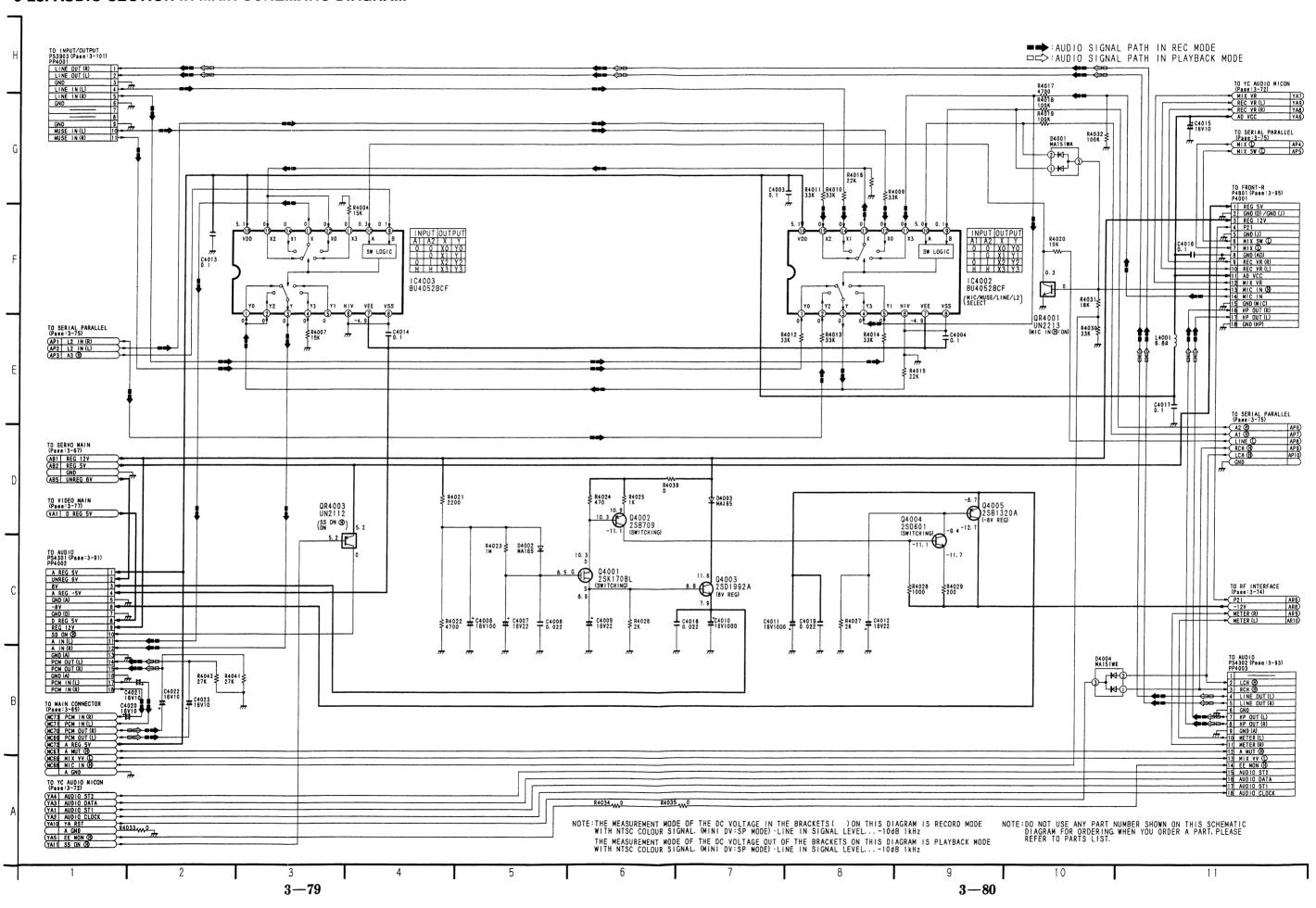
3-26. SERIAL PARALLEL SECTION IN MAIN SCHEMATIC DIAGRAM



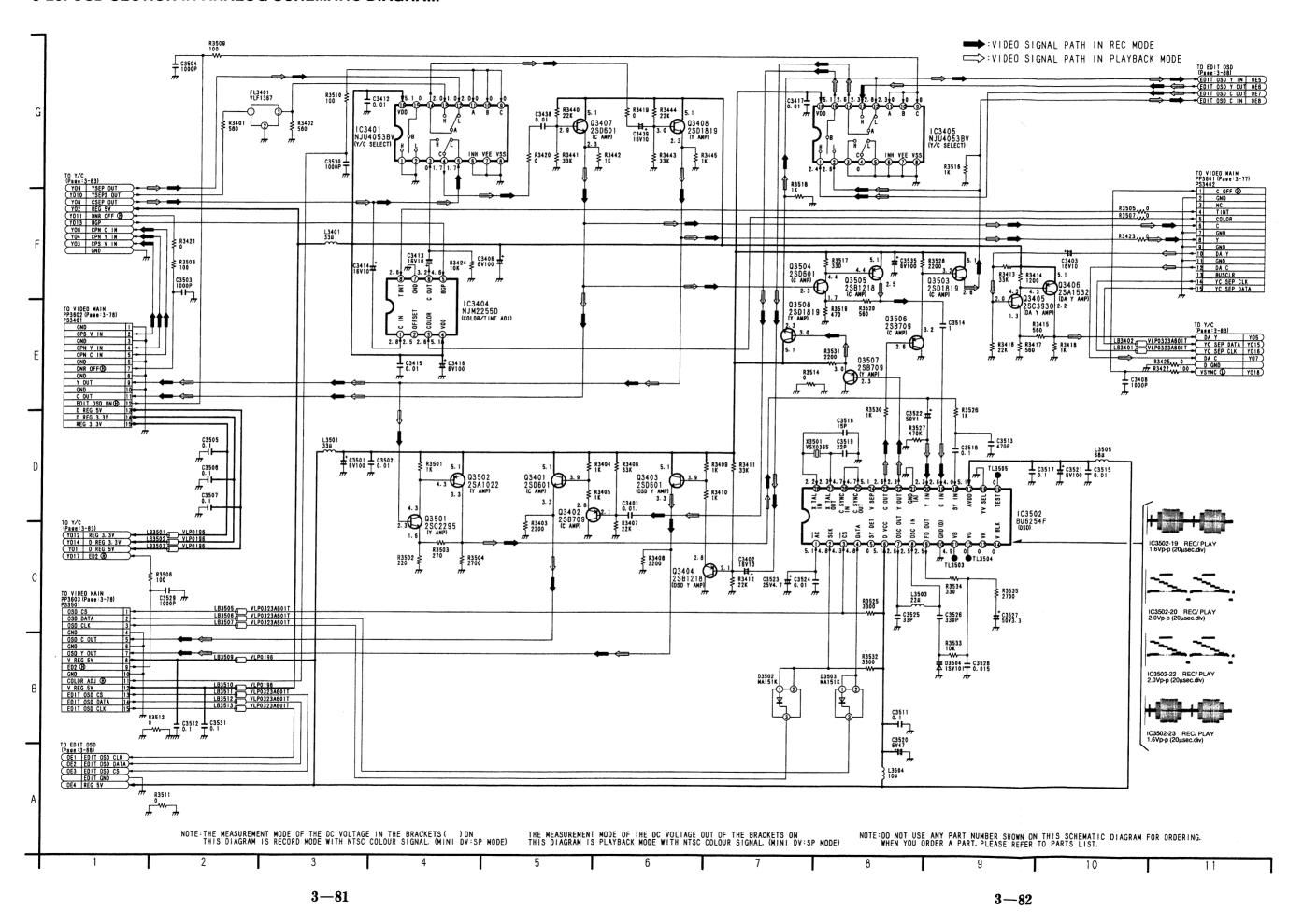
3-27. VIDEO MAIN SECTION IN MAIN SCHEMATIC DIAGRAM

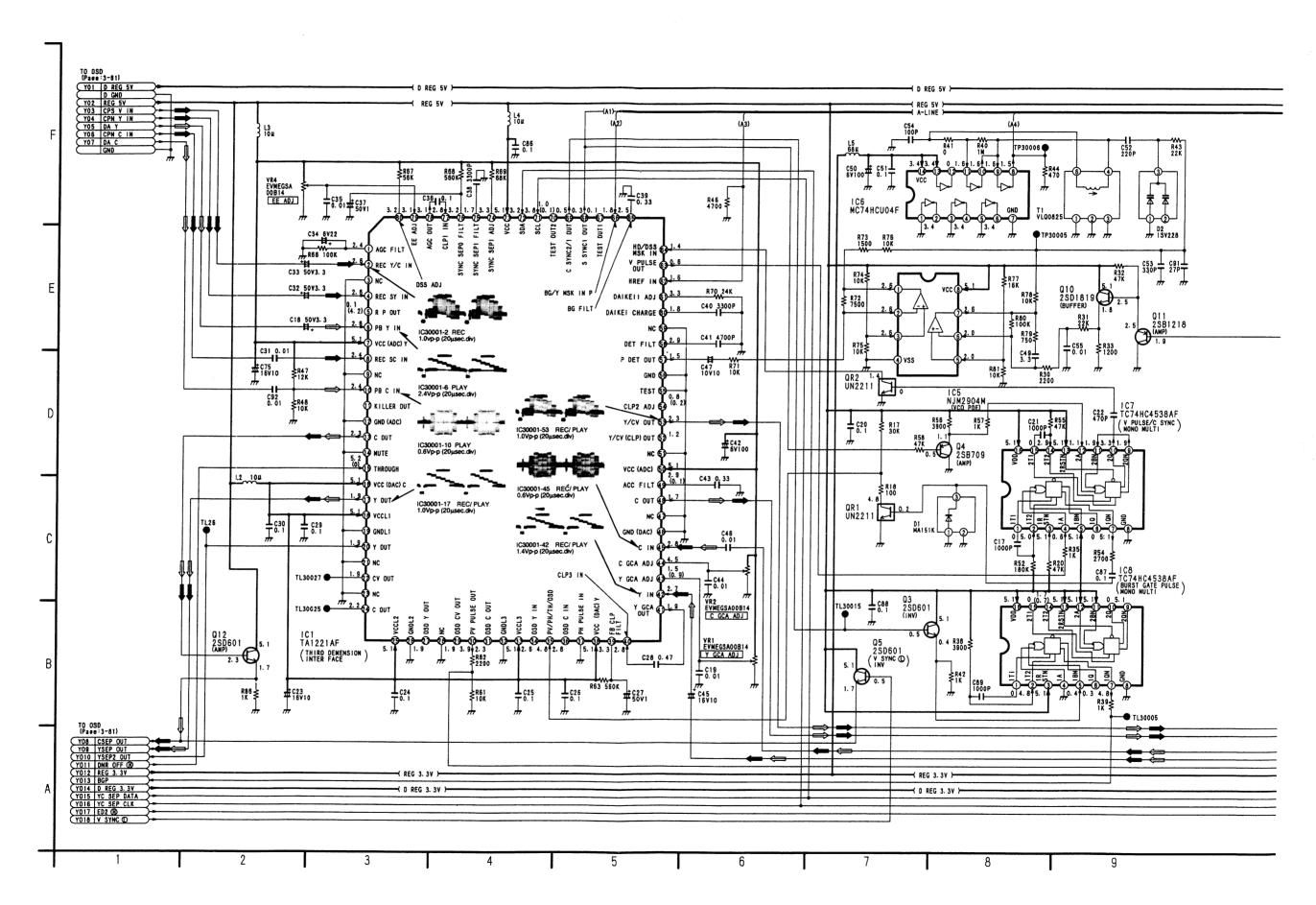


3-28. AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

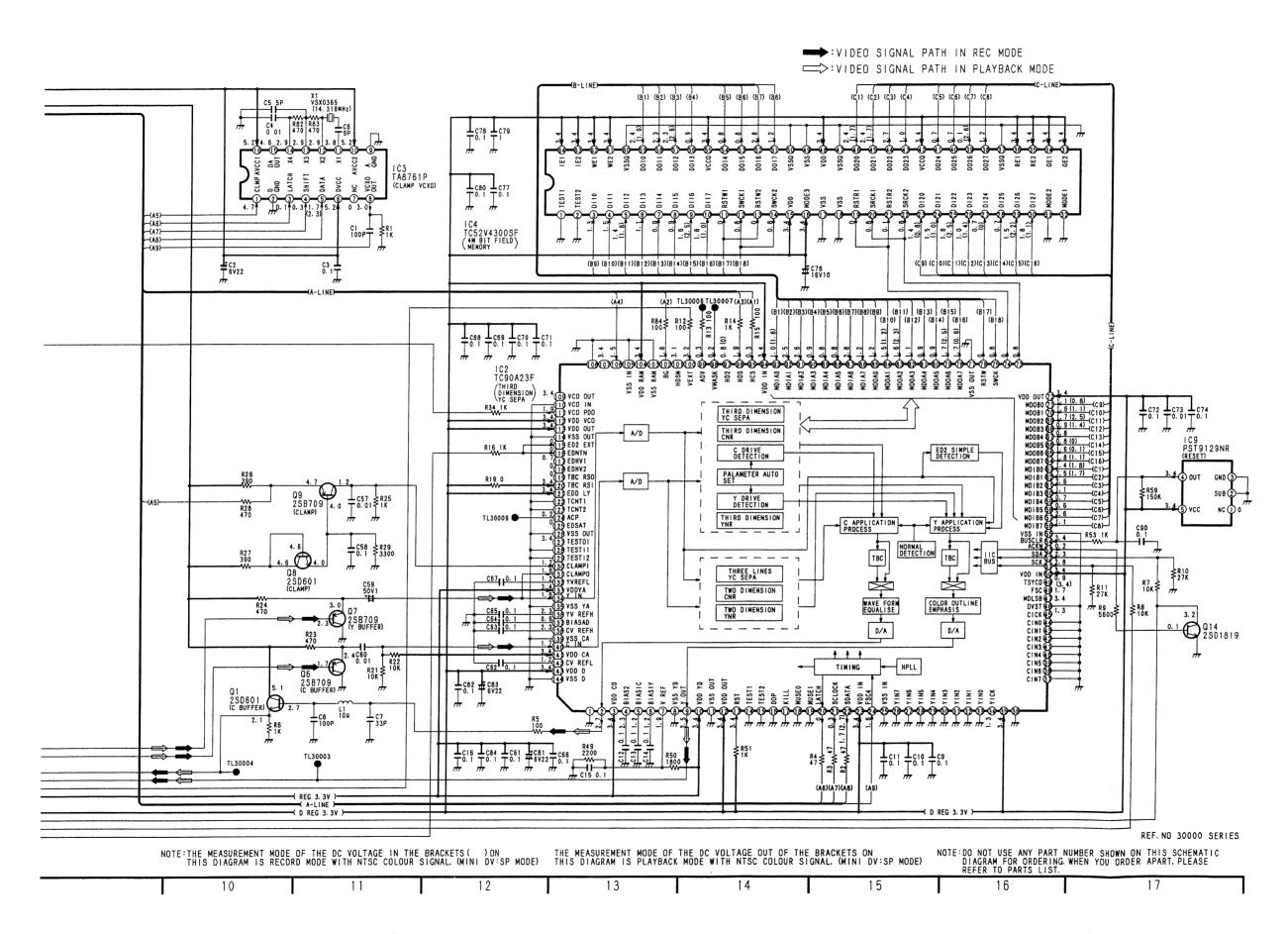


3-29. OSD SECTION IN ANALOG SCHEMATIC DIAGRAM





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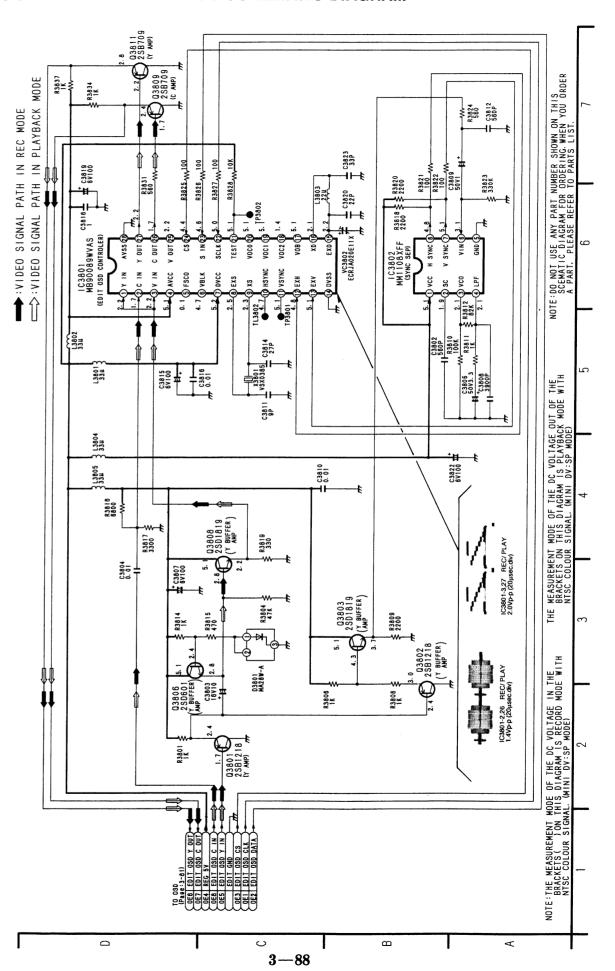
3 - 85

IC30001 CLAMP1 SYNC SEP1 SYNC SEP0 IIC BUS DEC PULSE OUT **** PULSE 9 9 1 1 1 1 1 1 1 λGC KEY REC/PB S/LINE V. MUTE etc. BG PULSE PLASTIC CIRCUIT λGC DET λGC SW- (1. 2) TRAPEZOID P-WAVE DET → SW- (4. 5) | SW-6 KILLER OUT BPF 5. 39dB TRAP1 - LPF1 SW-7 X CLAMP2 52 λCC DET 0.656dB 0 SW-8 λCC LPF2 0 CLAMP3 RCR 6dB SYNC SEP2 FB Clamp **1**2dB ► PV/PH [2dB OSD SW PV/PH/ Ah-/OSD DEC 2 d B 6dB

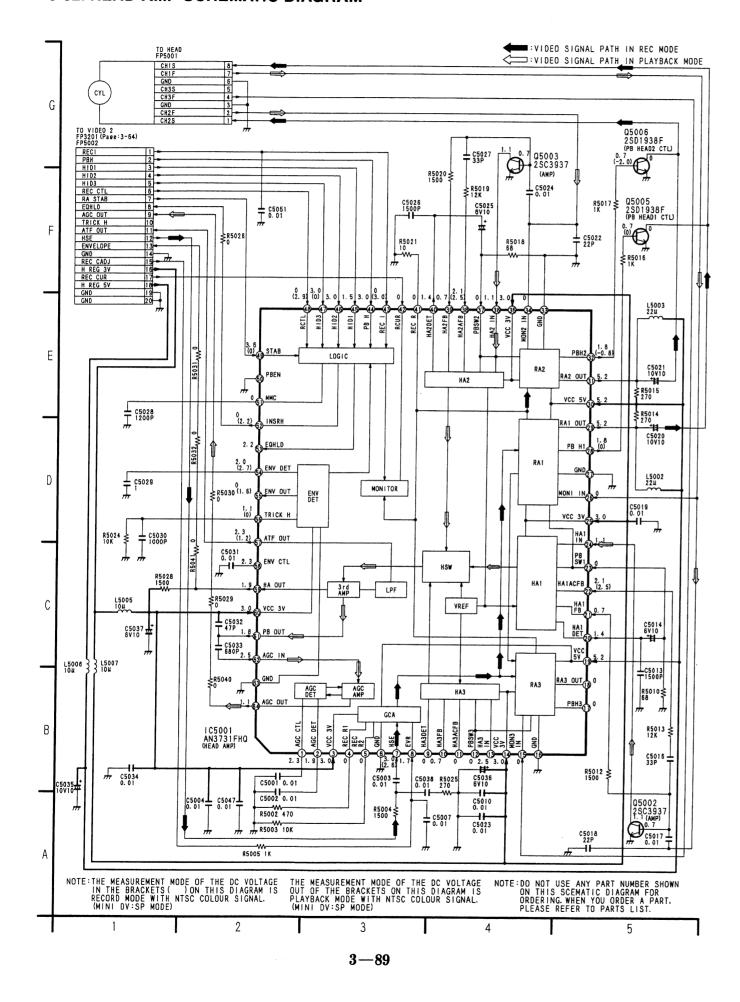
3-87

CLAMP4

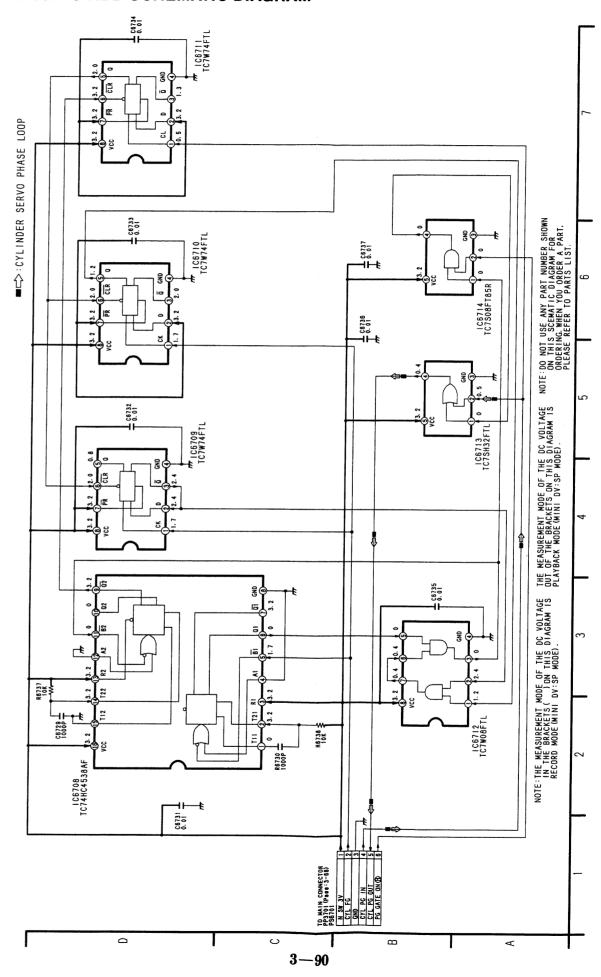
3-31. EDIT OSD IN ANALOG SCHEMATIC DIAGRAM



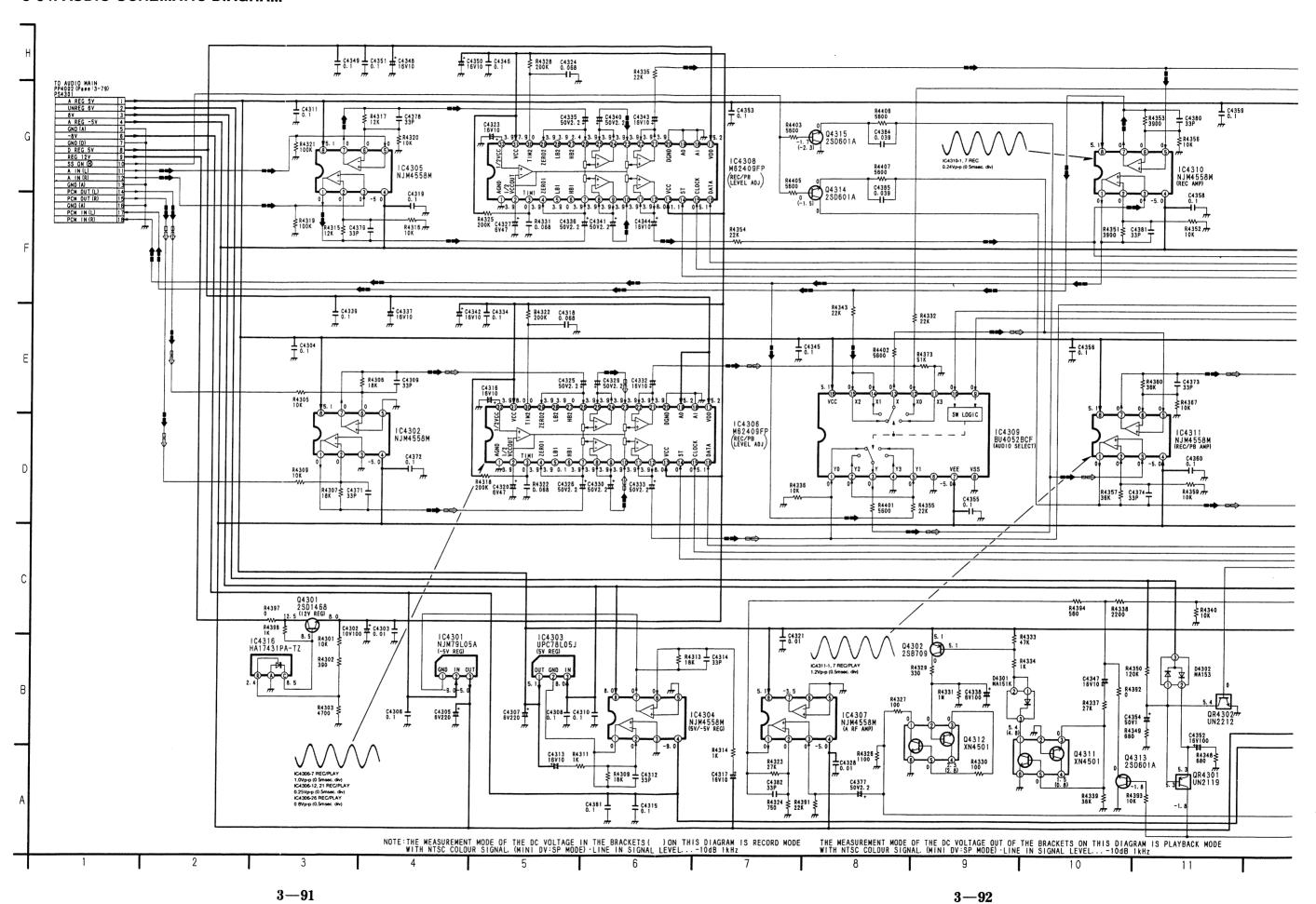
3-32. HEAD AMP SCHEMATIC DIAGRAM



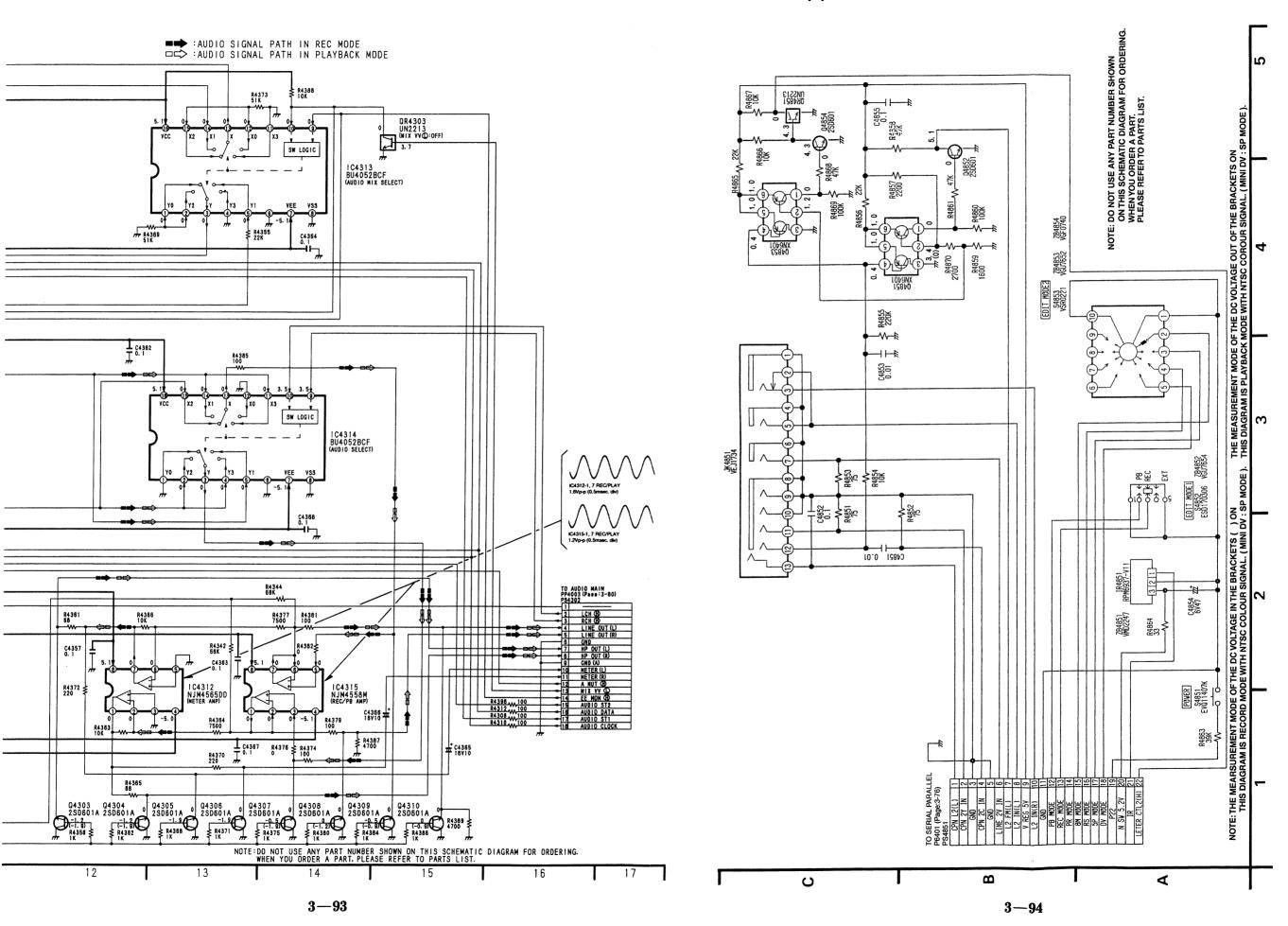
3-33. PG ADD SCHEMATIC DIAGRAM



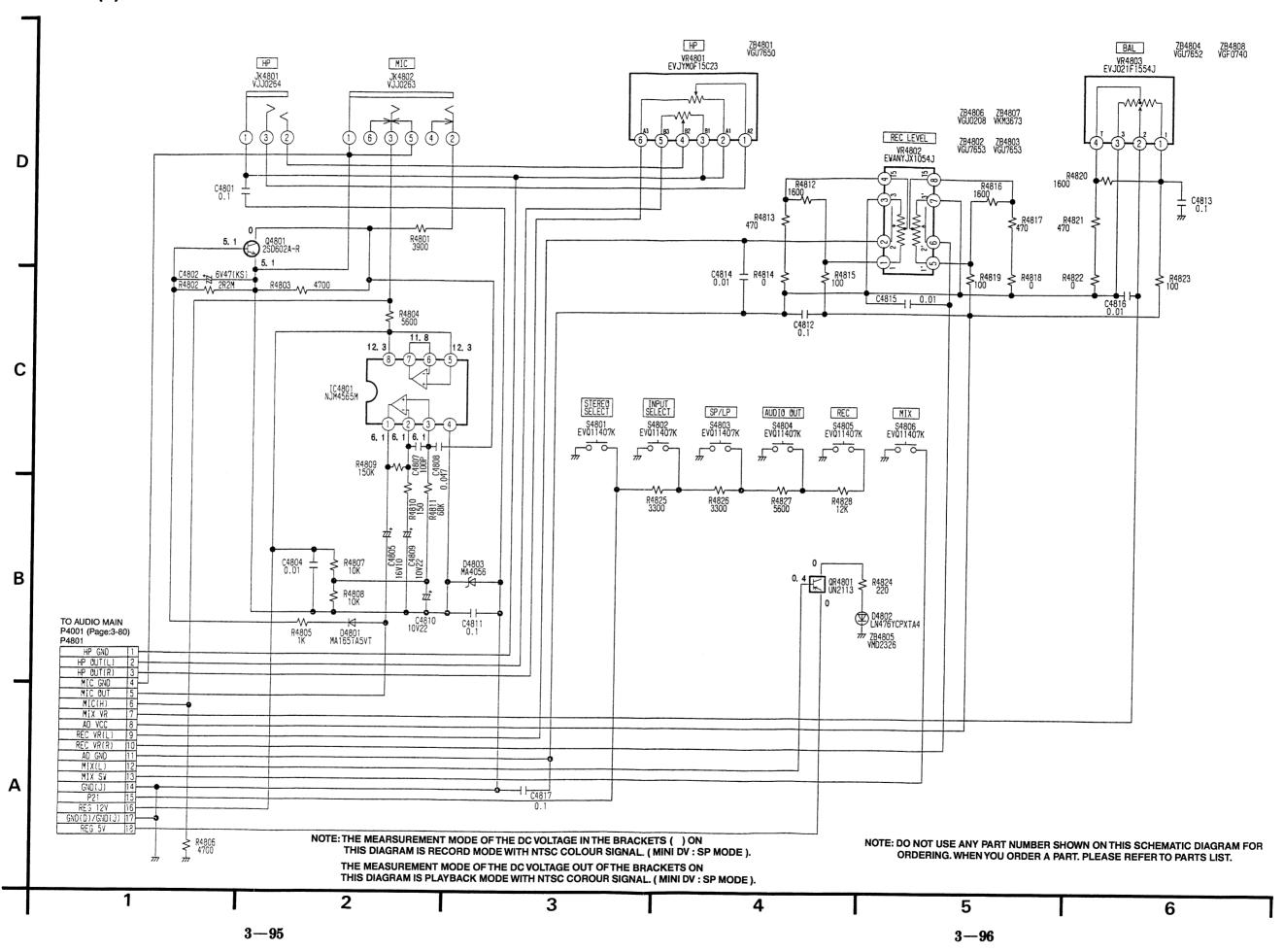
3-34. AUDIO SCHEMATIC DIAGRAM



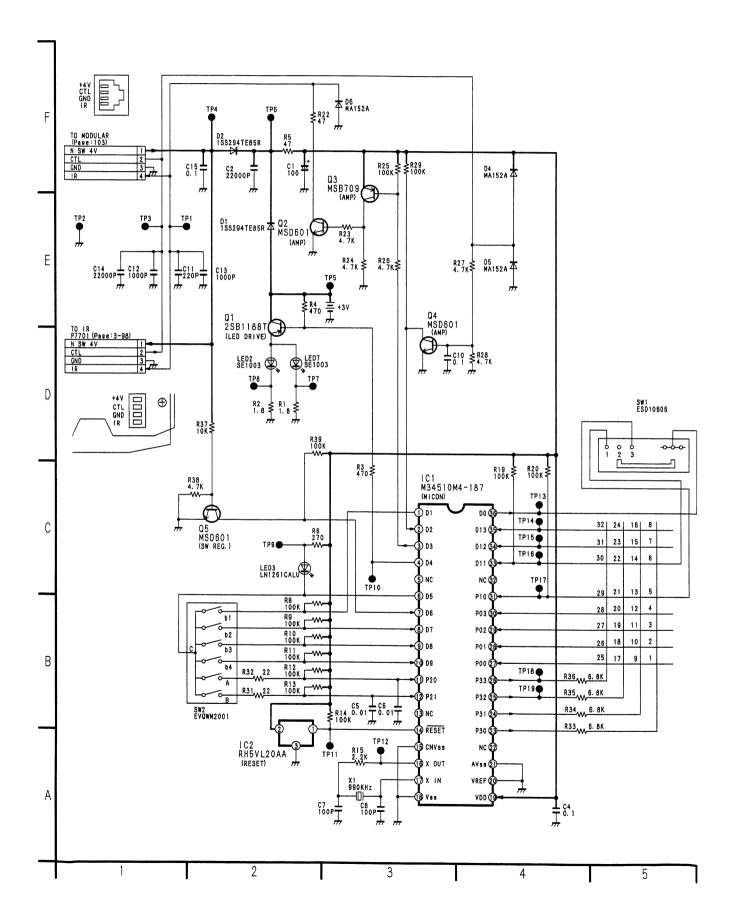
3-35. FRONT (L) SCHEMATIC DIAGRAM



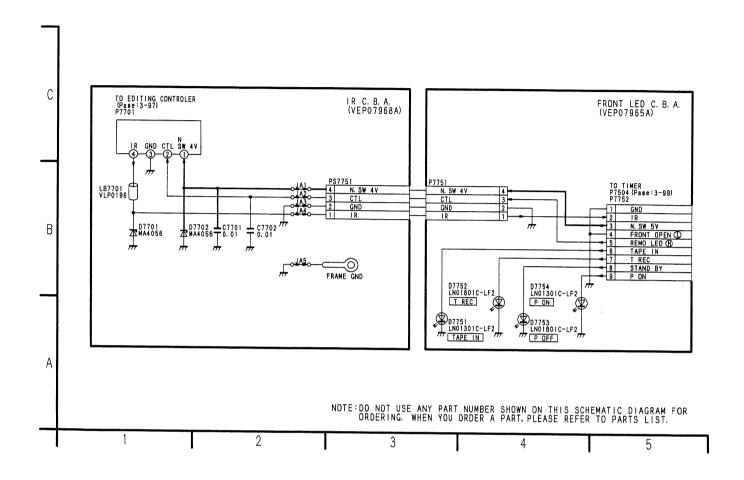
3-36. FRONT (R) SCHEMATIC DIAGRAM



3-37. EDITING CONTROLLER SCHEMATIC DIAGRAM



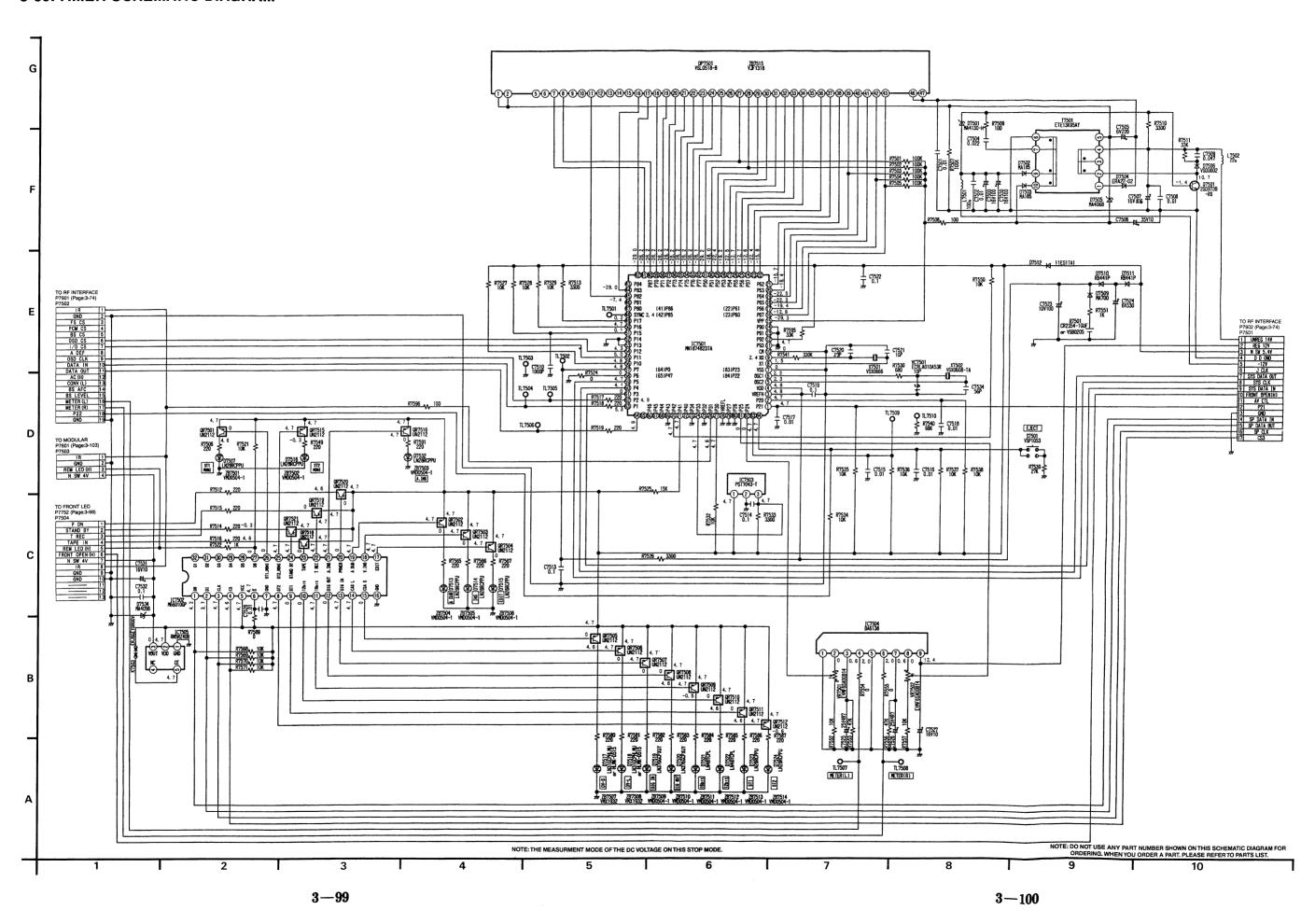
3-38. IR, FRONT LED SCHEMATIC DIAGRAMS



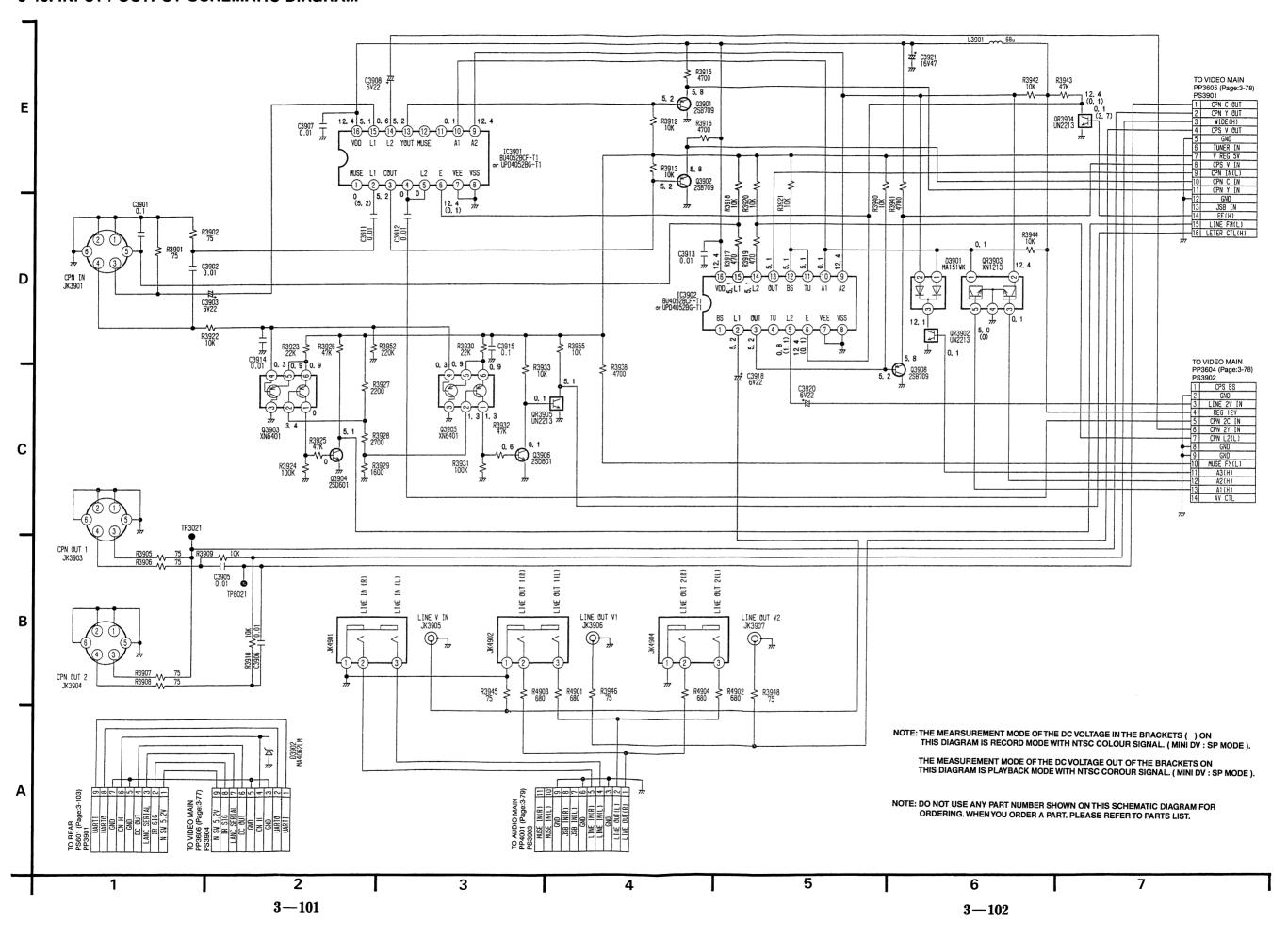
IC7502 (M66010GP): SUB MICON

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	DO	0	Serial Data	17	EDIT	0	LED ON Edit
2	DI	1	Serial Data	18	V INS	0	LED ON Video Insert
3	CLK		Serial Clock	19	A DUB	0	LED ON Audio Dubbing
4	CS	1	I/O Chip Select	20	POWER	0	LED ON Power
5	VCC			21	A INS	0	LED ON Audio Insert
6		1		22	T REC	0	LED ON Timer Rec
7	GND	_		23	TAPE	0	LED ON Cassette In
8	ST2	0	LED ON Data Stereo 2	24	STAND BY	0	LED ON Stand By
9	ST1	0	LED ON Data Stereo 1	25	ST2 MONI	0	LED ON Monitor Stereo 2
10	12bit	0	LED ON 12 Bit	26	ST1 MONI	0	LED ON Monitor Stereo 1
11	16bit	0	LED ON 16 Bit	27	D6	0	LED ON
12	DIG OUT	0	LED ON DV Output	28	D5		NC
13	DIG IN	0	LED ON DV Input	29	D4		NC
14	CAS L	0	LED Normal Cassette	30	D3	_	NC
15	CAS S	0	LED On Mini Cassette	31	D2		NC
16	GND			32	D1	_	NC

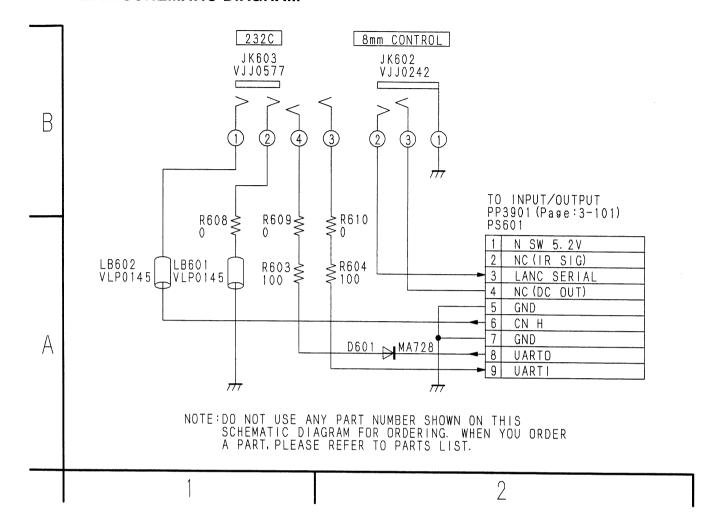
3-39. TIMER SCHEMATIC DIAGRAM



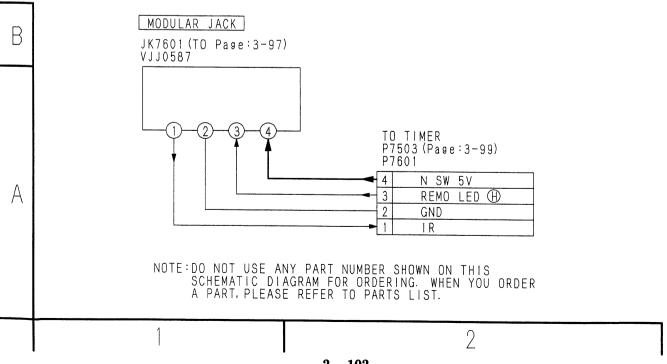
3-40. INPUT / OUTPUT SCHEMATIC DIAGRAM



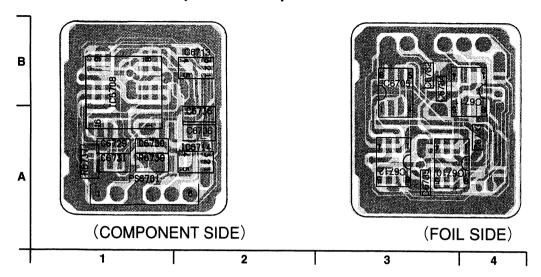
3-41. REAR SCHEMATIC DIAGRAM



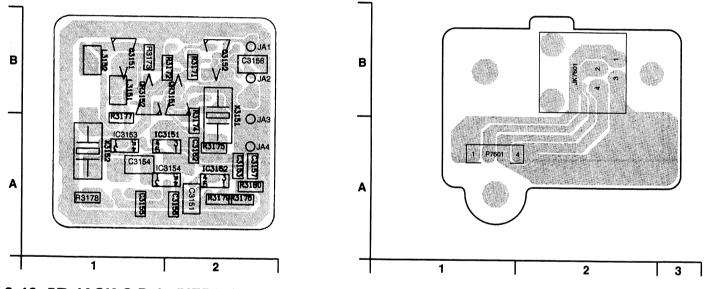
3-42. MODULAR SCHEMATIC DIAGRAM



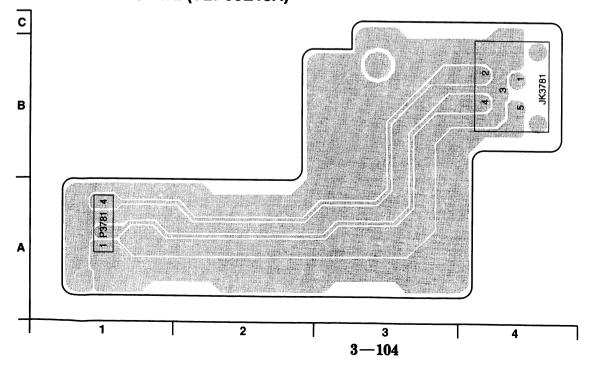
3-43. PG ADD C.B.A. (VEP06C59A)



3-44. CLOCK CHANGE C.B.A. (VEP03E78A) 3-45. MODULAR C.B.A. (VEP07966A)

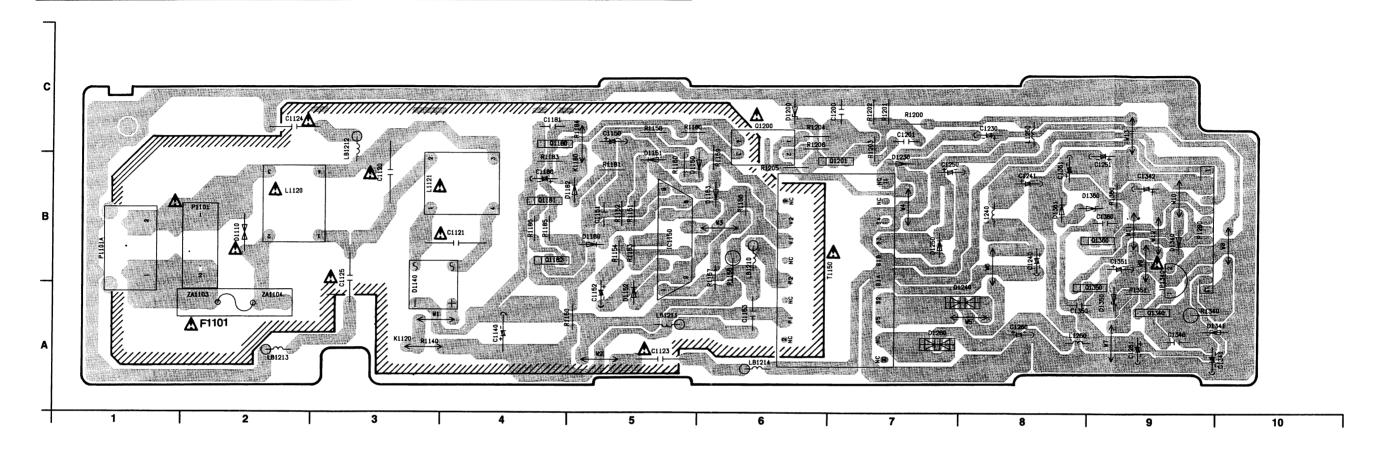


3-46. 5P JACK C.B.A. (VEP03E18A)

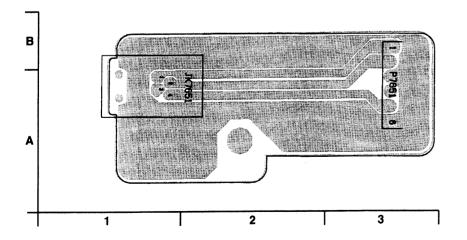


3-47. POWER SUPPLY C.B.A. (VEP01839A)

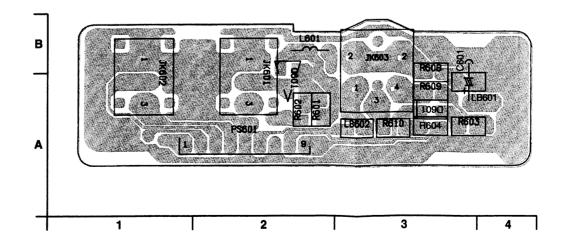
THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS. CAUTION



3-48. DV JACK C.B.A. (VEP07967A)

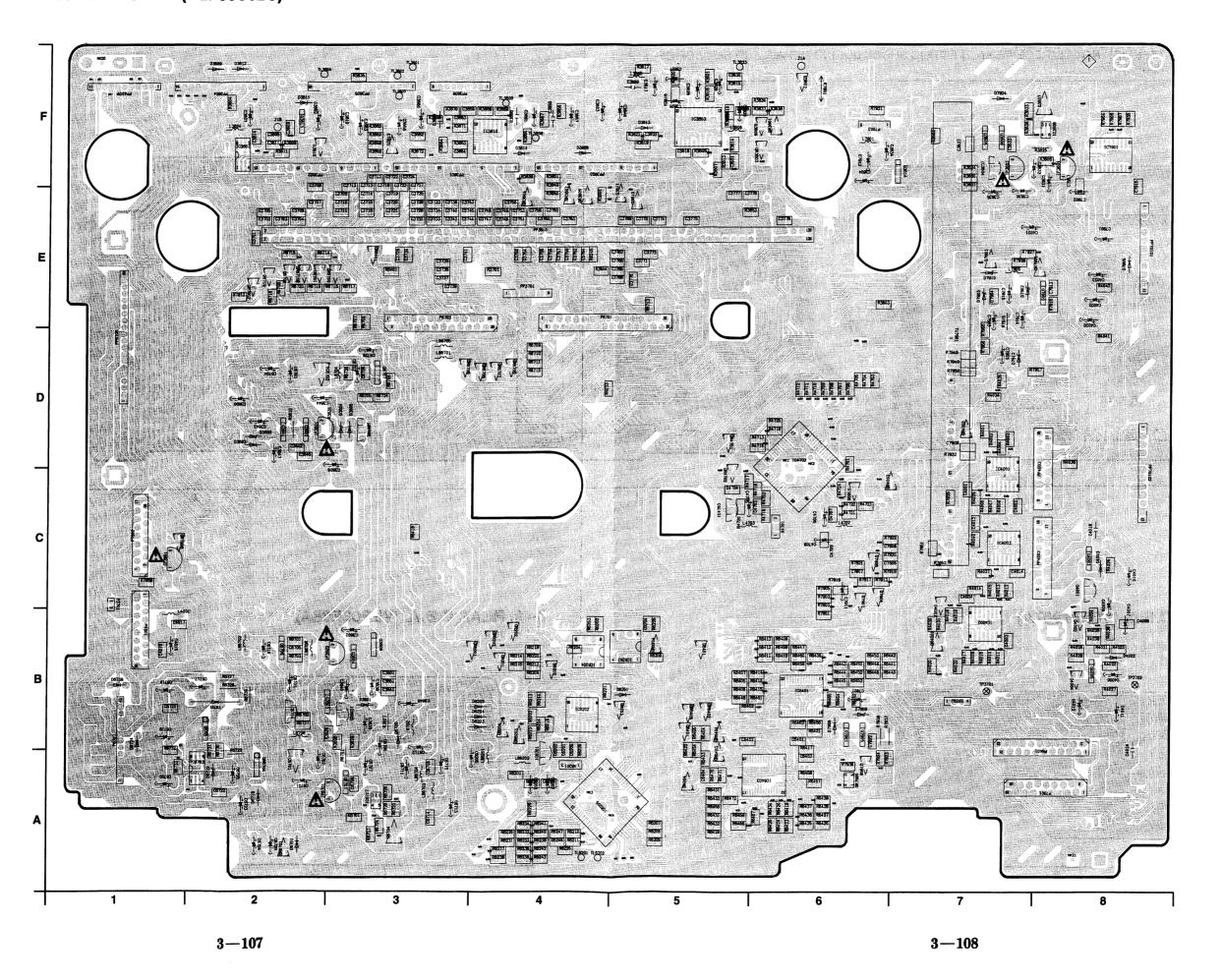


3-49. REAR C.B.A. (VEP03E08A)



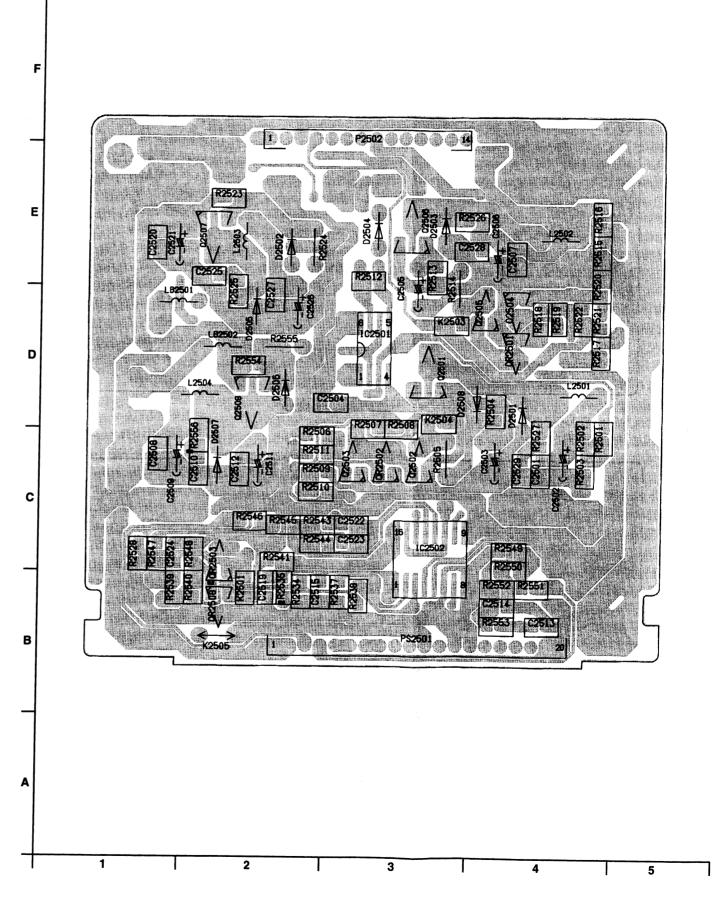
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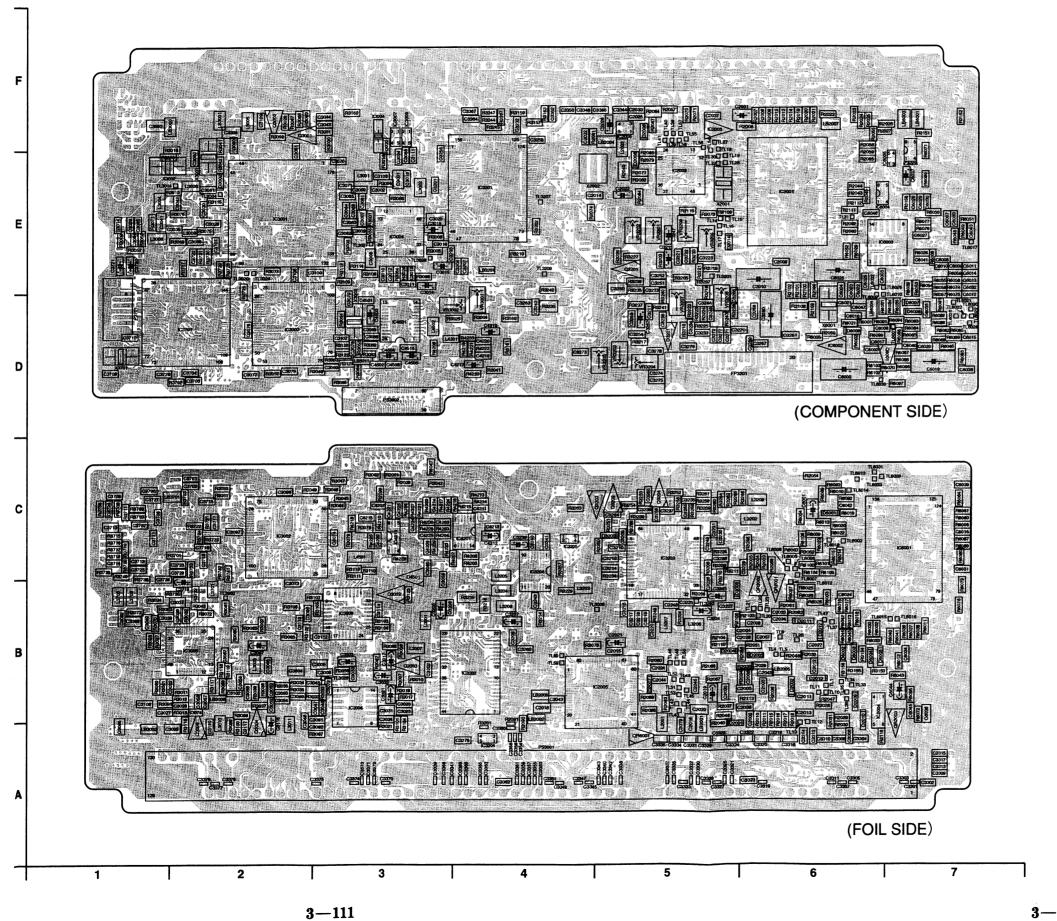
				MAIN	C.B.A.				
Transistor		Q6704	A-3	QR6401	E-3	IC4702	D-6	TP3702	B-8
Q3601	D-2	Q6705	B-2	QR6402	B-5	IC4703	C-5	Connector	L
Q3602	D-2	Q6706	B-2	QR6403	A-5	IC6201	A-4	Commodici	
Q3603	B-3	Q6707	D-3	QR6404	B-5	IC6202	B-4	P3701	C-1
Q3604	B-3	Q7901	B-6	QR6405	B-5	IC6203	B-5	P4001	B-1
Q3605	F-7	Q7902	E-8	QR6701	A-2	IC6204	B-4	P6201	B-7
Q3606	F-7	Q7903	E-7	QR6704	A-2	IC6205	A-4	P6401	A-8
Q3607	F-8	Q7904	C-6	QR6705	D-4	IC6401	B-6	P6701	E-4
Q3608	B-3	Q7905	B-6	QR6706	D-4	IC6403	A-6	P6703	E-3
Q3609	F-6	Q7906	C-6	QR6707	D-4	IC6701	A-2	P6707	B-1
Q3610	E-5	Q7907	C-6	QR6708	D-3	IC6702	D-2	P7901	A-8
Q3611	E-5	Q7908	A-6	QR6709	E-3	IC6703	A-2	P7902	C-1
Q3612	F-3		L	QR6710	E-2	IC6704	B-2	P7903	F-6
Q3613	F-2	Transistor & R	esistor	QR7901	E-7	IC6705	D-3	PP3601	F-3
Q3614	F-7	QR3601	F-6	QR7902	E-2	IC6707	A-3	PP3602	F-2
Q4001	C-8	QR3603	F-6	QR7905	A-6	IC7901	F-8	PP3603	F-4
Q4002	B-8	QR3604	E-4	QR7906	C-1			PP3604	F-2
Q4003	C-8	QR3607	E-4		L	Test Point		PP3605	F-3
Q4004	B-8	QR3609	E-4	Integrated Circ	uit	TL3601	F-3	PP3606	F-3
Q4005	B-8	QR4001	B-7	IC3601	F-2	TL3602	F-3	PP3610	E-4
Q6201	B-4	QR4002	D-7	IC3603	F-5	TL3603	F-3	PP3701	E-4
Q6202	B-4	QR4003	C-6	IC3604	F-7	TL3604	ı	PP4001	F-1
Q6203	B-5	QR4701	D-5	IC3604	B-3	TL3604	F-2 F-4	PP4002	C-8
Q6204	B-4	QR4702	C-5	IC3605	F-8	TL3608	F-4 F-4	PP4003	C-8
Q6401	B-5	QR6201	B-4	IC3610	F-6 F-4		F-4 F-5	PP6706	D-1
Q6701	E-2	QR6202	B-4	IC3610	C-7	TL3623 TL6201		PP70101	E-8
Q6702	E-2	QR6203	B-4	IC4001	U-7 B-7		A-4	PP70102	C-8
Q6702 Q6703	A-3	QR6204	B-5	IC4002	6-7 C-7	TL6202 TP3701	A-4 B-7		

3-51. MOTOR DRIVE C.B.A. (VEP06C29A)



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NOTE: MULTILAYER C.B.A.
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN
FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH
SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



Q3001 Q3002 Q3003 Q3004 Q3005 Q3201 Q3202 Q3203 Q3204 Q6001	F-2 F-2 B-3 A-2 A-2 E-5	TL16 TL17 TL18 TL19 TL20	E-5 E-5 F-5	X2001	Oscillator E-5	C3002 C3003	E-3 B-3
Q3002 Q3003 Q3004 Q3005 Q3201 Q3202 Q3203 Q3204	F-2 B-3 A-2 A-2	TL17 TL18 TL19	E-5 F-5	X2001	T		
Q3002 Q3003 Q3004 Q3005 Q3201 Q3202 Q3203 Q3204	F-2 B-3 A-2 A-2	TL18 TL19	F-5		E-5		
Q3003 Q3004 Q3005 Q3201 Q3202 Q3203 Q3204	B-3 A-2 A-2		1	X2002	E-4	C3004	B-2
Q3004 Q3005 Q3201 Q3202 Q3203 Q3204	A-2 A-2	TL20	F-5	1	1	C3005	B-3
Q3005 Q3201 Q3202 Q3203 Q3204	A-2	1	B-6	X3003 X3004	D-3 F-3	C3006	B-3
Q3201 Q3202 Q3203 Q3204		TL21	B-6	X3701	D-1	C3007	E-3
Q3202 Q3203 Q3204		TL22	B-6	X6001	D-6	C3008	E-3
Q3203 Q3204	C-5	TL23	B-6			C3010	E-3
	C-5	TL26	B-6	Coil		C3011	E-3
Q6001	C-5	TL27 TL28	F-5	L2001	A-5	C3012	E-3
	D-6	TL30	E-5 F-5	L2003	F-5	C3013	E-3 E-3
	. Danistan	TL31	E-6	L3001	E-3	C3014	E-3
Transistor	a nesision	TL32	E-5	L3002	E-3	C3016	E-3
QR2001	B-6	TL33	B-6	L3003	B-2	C3017	B-3
QR2002	B-6	TL34	B-6	L3004	E-1	C3018	E-3
QR2003	B-7	TL35	B-6	L3006	E-2	C3019	E-3
QR6001	A-5	TL36	B-6	L3007	B-3	C3020	E-3
Integrate	d Circuit	TL37	B-6	L3008	E-1	C3021	B-3
-		TL38	F-5	L3009	E-2	C3023	B-3
IC2001	E-6	TL39	F-5	L3011	A-2	C3024	E-3
IC2002	E-5	TL40	F-5	L3201	B-3	C3025	B-3
IC2003	F-5	TL41	F-5	L3202	C-6	C3026	E-2
IC2004	B-6	TL42	B-5	L3203	B-4	C3027	B-1
IC2005	B-5	TL43	B-5	L3204	B-4	C3028	B-2
IC2006	F-5	TL44	B-5	L3205	C-4	C3029	E-1
IC3001 IC3002	E-2 C-2	TL45	B-5	L3206 L3207	B-5 B-5	C3030	E-2
IC3002	D-2	TL46	B-5	L3207	B-5 B-4	C3031	B-3
IC3003	D-2 E-3	TL47	B-6	L3208	C-6	C3032	B-3
IC3004	B-2	TL48	B-5	L3209	B-2	C3033	B-3
IC3005	B-3	TL49 TL50	B-5	L3702	B-1	C3034	B-3
IC3007	F-3	TL50	B-5 B-5	L3703	B-1	C3035 C3036	E-2 E-2
IC3009	F-3	TL52	B-5	L4201	D-3	C3036	B-2
IC3201	E-4	TL53	B-5	L4501	C-3	C3038	B-2
IC3202	B-4	TL54	F-5	L4502	D-3	C3039	B-1
IC3203	C-5	TL55	F-5	LB2001	A-5	C3040	B-1
IC3204	C-4	TL56	F-5	LB2002	B-4	C3041	E-1
IC3205	C-4	TL57	F-5	LB2004	F-5	C3042	E-2
IC3701	D-2	TL58	F-5	LB2005	B-6	C3043	F-3
IC4201	C-4	TL59	B-4	LB2006	B-4	C3044	F-3
IC4210	C-3	TL60	B-4	LB2007	F-6	C3045	B-2
IC4501	D-3	TL3002	B-2	LB3001	F-2	C3046	B-3
IC6001	C-7	TL3004	E-2	LB3002	A-1	C3047	B-3
IC6002	D-6	TL3006	B-5	LB3003	F-1	C3048	A-2
IC6003	E-6	TL3014	E-1	LB3006	B-2	C3049	B-2
IC6004	E-5	TL3020	E-2	LB3011 LB3201	D-3 E-4	C3050	B-2
IC6005 IC6006	E-6 E-7	TL3024	E-2	LB3201	C-1	C3051	F-2
100000	E-/	TL3026	E-3	LB6001	F-7	C3052	B-2
Diode		TL3027	E-3	LB6003	F-7	C3053	B-2
D2001	B-5	TL3028	E-3	LB6003	D-6	C3054	B-2
D2003	B-5	TL3201	E-5 B-5	250004		C3055	B-2
D2004	B-5	TL3202 TL3207	E-4	Capacito	r	C3056 C3057	B-2 B-2
D2005	B-6	TL3208	E-4	C2001	F-5		B-2
D2006	E-5	TL6001	D-7	C2001	B-6	C3058	B-3
D2007	B-5	TL6002	C-6	C2002	B-6	C3062	E-3
D2008	F-5	TL6005	C-6	C2004	B-6	C3063	E-3
D2009	B-6	TL6006	C-6	C2005	B-6	C3064	E-3
D2010	B-6	TL6007	C-6	C2006	B-6	C3065	E-3
D2011	B-6	TL6008	C-6	C2007	B-6	C3066	B-2
D2012	B-6	TL6009	E-6	C2008	B-6	C3067	B-2
D2013	B-6	TL6010	E-7	C2009	E-6	C3068	E-3
D2014	E-5	TL6012	B-6	C2010	E-6	C3069	E-3
D3002	E-2	TL6013	C-6	C2011	B-6	C3070	E-3
D3003	B-3	TL6014	C-6	C2012	B-6	C3071	E-3
D3201	D-5 C-5	TL6015	B-6	C2013	B-6	C3072	B-3
D3203 D4501	C-5	TL6016	B-7	C2014	E-4	C3073	B-2
D6001	C-3 C-6	TL6017	E-7	C2015	B-5	C3074	C-3
D6001	B-6	TL6018 TL6020	C-6	C2016	B-5	C3075	D-2
D6002	B-6	TL6020	D-7 D-7	C2018 C2019	B-4 B-5	C3076 C3077	D-2 D-2
D6004	B-6	TL6021	D-7 D-7	C2019	B-5	C3077	D-2
D6005	B-6	TL6023	D-7	C2021	B-5	C3079	D-3
D6007	D-7	TL6024	D-7	C2022	F-4	C3080	C-3
D6008	D-7	TL6025	D-7	C2023	E-5	C3081	E-3
Foot Print		TL6026	E-7	C2024	B-5	C3082	B-1
Test Point		TL6029	C-6	C2025	F-5	C3083	B-1
TL1	B-6	TL6030	D-6	C2026	F-5	C3084	E-1
	B-6	TL6031	C-6	C2027	B-6	C3085	E-1
	B-6	TL6032	E-6	C2028	B-6	C3086	E-3
TL9	B-6	TL6033	C-6	C2029	B-6	C3087	B-2
1	B-6	Connecto		C2030	B-5	C3090	D-3
	B-6			C2042	B-6	C3091	B-3
	B-6	FP3201	D-5	C2043	B-4	C3092	A-3
1	B-6	P3701	D-1	C2044	B-5	C3093	F-1
1	E-5	PS3001	A-4	C2045	B-5	C3094	F-2
TL15	E-5	PS3002	D-3	C3001	E-3	C3095	A-1

ADDRESS INFORMATION

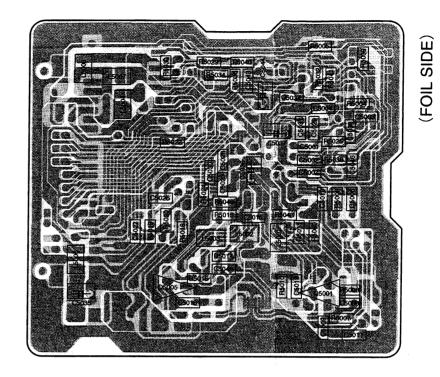
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C3097	C-2	C3310	A-6	C3719	B-2	R2020	F-6	R3019	E-3	R3202	E-4	R4203	C-3	R6065	D-7
C3098	C-2	C3311	A-6	C3720	E-1	R2021	F-6	R3020	F-3	R3203	E-5	R4204	C-3	R6066	D-7
23099	B-2	C3312	A-6	C3721	E-1	R2022	F-6	R3021	A-3	R3204	B-5	R4205	C-4	R6067	D-7
C3100 C3101	E-2 E-2	C3313 C3314	A-7 A-6	C3722 C3723	E-2 C-2	R2023 R2024	F-6 F-6	R3022	B-2 B-1	R3205	E-5 B-5	R4206	C-4	R6068	D-7
23101	B-2	C3314	A-6 A-7	C3724	C-1	R2024	F-6	R3023 R3024	B-1 B-1	R3206 R3207	E-5	R4207 R4208	C-3 D-3	R6069 R6070	D-7 D-6
23102	E-3	C3316	A-6	C3725	C-1	R2026	F-6	R3025	D-3	R3208	C-5	R4209	C-3		
23106	E-2	C3317	A-7	C3727	C-1	R2027	F-6	R3026	E-3	R3209	C-5			R6071	F-7
	D-3		1	1	C-3	1	1 -		1	· ·	1	R4210	C-3	R6072	B-7
23107	B-1	C3318	A-6	C4203	1	R2028	B-6	R3027	B-1	R3210	C-5	R4213	C-4	R6073	B-6
23108	E-3	C3319	A-6	C4206	C-3	R2029	B-6	R3028	B-1	R3211	C-5	R4214	C-4	R6074	E-7
23111		C3320	A-6	C4207	1	R2030	B-6	R3030	F-3 F-3	R3212	D-5	R4215	C-4	R6075	E-7
C3116	A-2	C3321	A-5	C4211	C-4	R2031	B-6	R3031		R3213	E-4	R4216	C-3	R6076	E-7
23117	A-2	C3322	A-6	C4212	C-4	R2032	B-6	R3032	B-3	R3214	B-4	R4217	C-3	R6077	E-7
23201	E-3	C3323	A-6	C4213	C-4	R2034	B-6	R3033	B-2	R3215	B-4	R4218	C-3	R6078	B-7
C3202	B-3	C3324	A-5	C4214	C-3	R2035	B-6	R3034	B-2	R3217	D-5	R4219	D-4	R6079	B-7
C3203	E-3	C3325	A-5	C4215	C-3	R2036	B-6	R3035	B-2	R3218	E-5	R4220	D-4	R6080	C-7
23204	E-4	C3326	A-5	C4217	D-4	R2037	B-5	R3036	B-2	R3219	E-5	R4221	D-4	R6081	D-7
23205	B-3	C3327	A-5	C4218	D-4	R2038	C-3	R3037	B-2	R3220	E-5	R4222	D-4	R6082	D-7
C3206	B-3	C3328	A-5	C4219	D-4	R2039	C-3	R3038	B-2	R3221	E-5	R4223	C-3	R6083	D-7
23207	E-4	C3329	A-5	C4220	D-4	R2040	B-5	R3039	B-2	R3222	D-5	R4224	C-3	R6084	D-7
23208	B-4	C3330	A-5	C4221	C-3	R2042	C-3	R3042	E-2	R3223	D-5	R4225	C-3	R6085	D-7
23209	C-5	C3331	A-5	C4222	C-3	R2045	E-6	R3043	B-2	R3224	D-5	R4226	C-3	R6086	D-7
C3210	C-5	C3332	A-5	C4223	C-3	R2046	B-5	R3044	C-3	R3225	D-5	R4227	C-3	R6087	C-7
23211	D-5	C3333	A-5	C4224	C-3	R2047	B-6	R3046	C-3	R3226	C-5	R4228	C-3	R6088	C-7
3212	C-5	C3334	A-5	C4225	C-3	R2048	B-6	R3047	C-3	R3227	E-5	R4229	C-3	R6089	C-6
3213	E-5	C3335	A-5	C4501	D-3	R2049	E-5	R3048	D-3	R3228	D-5	R4230	C-3	R6090	D-6
3214	C-5	C3336	A-5	C4502	D-3	R2050	D-6	R3049	C-2	R3229	B-4	R4231	C-3	R6091	D-6
23215	E-5	C3337	A-5	C4503	D-3	R2051	B-6	R3050	C-2	R3230	D-4	R4232	C-3	R6092	C-6
3216	B-5	C3338	A-5	C4504	D-3	R2052	C-6	R3051	C-2	R3233	E-5	R4233	D-4	R6093	C-6
3217	B-5	C3339	A-3	C4505	D-3	R2055	F-6	R3052	D-2	R3234	C-5	R6001	D-6	R6094	D-7
3218	B-5	C3340	A-5	C4506	D-3	R2056	B-6	R3053	D-3	R3235	E-5	R6003	B-6	R6095	B-7
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3220	B-5	C3342	A-5	C6001	C-6	R2058	F-6	R3055	E-3	R3237	D-5	R6008	E-7	R6097	D-7
3221	E-5	C3343	A-5	C6002	D-6	R2059	F-6	R3057	E-1	R3238	C-5	R6009	C-6	R6098	D-7
3222	E-5	C3344	F-5	C6003	D-6	R2060	E-6	R3058	E-1	R3239	C-5	R6010	C-6	R6099	E-7
3223	E-5	C3345	A-4	C6004	E-6	R2061	B-6	R3060	B-1	R3240	D-5	R6011	B-7	R6100	C-6
3224	B-5	C3346	F-5	C6005	E-6	R2062	B-6	R3061	B-1	R3241	D-5	R6012	B-7	R6101	C-6
3225	B-5	C3347	A-4	C6006	E-7	R2063	B-5	R3064	E-3	R3242	E-4	R6013	C-6	R6102	D-6
3226	B-5	C3348	F-4	C6007	E-7	R2064	F-5	R3065	B-2	R3243	D-5	R6014	C-6	R6103	D-6
3227	B-5	C3349	A-4	C6008	D-6	R2065	E-6	R3066	E-3	R3245	F-4	R6015	C-6	R6105	C-6
3228	C-5	C3350	F-4	C6009	E-7	R2066	B-5	R3067	F-2	R3249	B-5	R6016	B-6	R6106	C-6
3229	C-6	C3351	A-4	C6010	E-7	R2067	B-5	R3068	F-2	R3250	C-5	R6017	B-6		
3230	C-5	C3352	F-4	C6011	E-7	R2070	F-5	R3069	E-2	R3251	C-5	R6018	B-6		
3231	C-5	C3353	A-4	C6012	E-7	R2071	F-5	R3070	B-1	R3252	C-5	R6019	C-6		
3232	F-4	C3354	A-4	C6015	D-7	R2073	E-5	R3072	B-2	R3253	C-5	R6020	C-6		
3233	D-5	C3355	A-4	C6017	D-6	R2074	E-4	R3073	B-1	R3254	C-5	R6021	D-6		
3234	D-5	C3356	A-4	C6018	D-6	R2076	B-4	R3074	B-2	R3255	C-5	R6022	C-6		
3235	C-5	C3357	A-4	C6019	D-7	R2077	E-5	R3075	E-2	R3257	C-4	R6023	C-6	1 1	
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3237	C-5	C3359	A-4	C6021	D-6	R2080	B-5	R3079	C-3	R3259	C-5	R6025	B-6	1 1	
3238	C-5	C3360	A-4	C6022	E-6	R2081	F-4	R3080	B-2	R3260	C-5	R6026	B-6	1 1	
3239	C-4	C3361	A-4	C6023	E-6	R2082	E-5	R3081	B-2	R3261	C-5	R6027	B-6		
3240	C-4	C3362	A-4	C6024	B-6	R2084	E-5	R3082	D-3	R3262	C-5	R6028	B-6		
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3244	D-5	C3366	A-4	C6028	E-7	R2088	B-5	R3086	B-3	R3266	C-5	R6033	B-6		
3245	B-5	C3367	F-4	C6029	E-7	R2090	B-4	R3088	E-3	R3267	F-4	R6034	D-7		
3246	D-5	C3368	A-3	C6030	E-7	R2092	E-6	R3089	B-2	R3701	C-2	R6035	D-7		
3247	E-5	C3369	A-4	C6033	E-7	R2099	E-6	R3090	F-2	R3702	D-2	R6036	B-7		
3248	B-5	C3370	A-3	C6034	B-7	R2100	E-6	R3091	B-1	R3703	C-2	R6037	B-7		
3249	C-5	C3371	A-3	C6035	D-7	R2101	E-6	R3092	F-2	R3708	C-1	R6038	B-7		
3250	E-5	C3372	A-3	C6036	B-7	R2102	E-6	R3094	E-3	R3709	C-1	R6039	E-7		
3251	E-5	C3373	A-3	C6041	E-7	R2104	B-5	R3095	B-2	R3710	C-1	R6040	B-7		
3252	E-5	C3374	A-3	C6043	E-7	R2105	B-5	R3097	A-3	R3711	C-1	R6041	B-7		
3253	D-5	C3375	A-3	C6044	B-7	R2106	E-5	R3098	B-2	R3715	C-1	R6042	B-6		
3254	D-5	C3376	A-2	C6045	B-7	R2111	E-6	R3099	A-2	R3716	C-1	R6043	B-7		
3255	C-5	C3377	A-2	C6046	E-6	R2112	E-6	R3100	A-2	R3717	C-1	R6044	B-6		
3256	C-5	C3378	A-2	C6047	D-6	R2113	B-6	R3101	A-3	R3718	C-1	R6045	B-6		
3257	B-4	C3379	A-5	Resistor		R2115	E-5	R3117	B-2	R3719	C-1	R6046	D-7		
3258	F-3	C3701	C-2			R2116	A-6	R3120	D-3	R3720	C-1	R6047	C-3	[
3259	F-4	C3702	C-2	R2001	C-3	R3001	E-3	R3121	D-3	R3721	C-2	R6048	E-7		
3260	B-4	C3703	D-2	R2002	C-3	R3002	B-2	R3122	D-3	R3722	C-2	R6049	E-7		
3261	D-6	C3704	D-2	R2003	C-6	R3003	E-3	R3123	B-3	R3723	C-2	R6050	E-7		
3262	D-5	C3705	C-1	R2006	F-6	R3004	D-4	R3151	F-7	R3724	C-2	R6051	E-7		
3264	C-5	C3706	C-1	R2007	F-6	R3005	E-3	R3152	F-7	R3725	E-2	R6052	E-6		
3265	C-5	C3707	C-1	R2008	F-6	R3006	E-3	R3153	B-6	R3728	E-2	R6053	E-7		
3267	D-6	C3708	D-1	R2009	F-6	R3007	B-3	R3154	B-6	R3729	E-2	R6054	E-7		
3280	D-6	C3709	C-1	R2010	B-6	R3008	B-3	R3155	B-6	R3730	E-2	R6055	E-7		
3301	A-7	C3710	D-1	R2011	B-6	R3009	E-1	R3156	B-6	R3731	E-2	R6056	E-7		
3302	A-7	C3711	C-1	R2012	F-6	R3010	B-3	R3157	F-4	R3732	B-2	R6057	E-7		
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3306	A-6	C3715	C-2	R2016	B-6	R3014	E-1	R3161	D-4	R3737	E-2	R6061	C-7		
3307 3308	A-6 A-6	C3716 C3717	C-2 C-2	R2017 R2018	B-6 B-6	R3016 R3017	F-2 B-3	R3162 R3163	F-3 F-4	R3738 R3739	C-1 C-1	R6062 R6063	D-7 D-7		

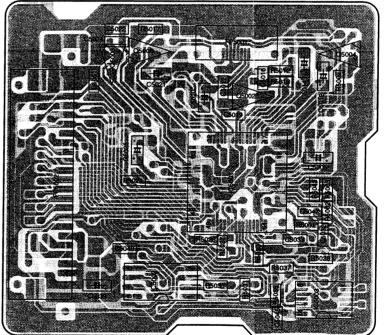
3-113

3-53. HEAD AMP C.B.A. (VEP05351A)

NOTE: MULTILAYER C.B.A.

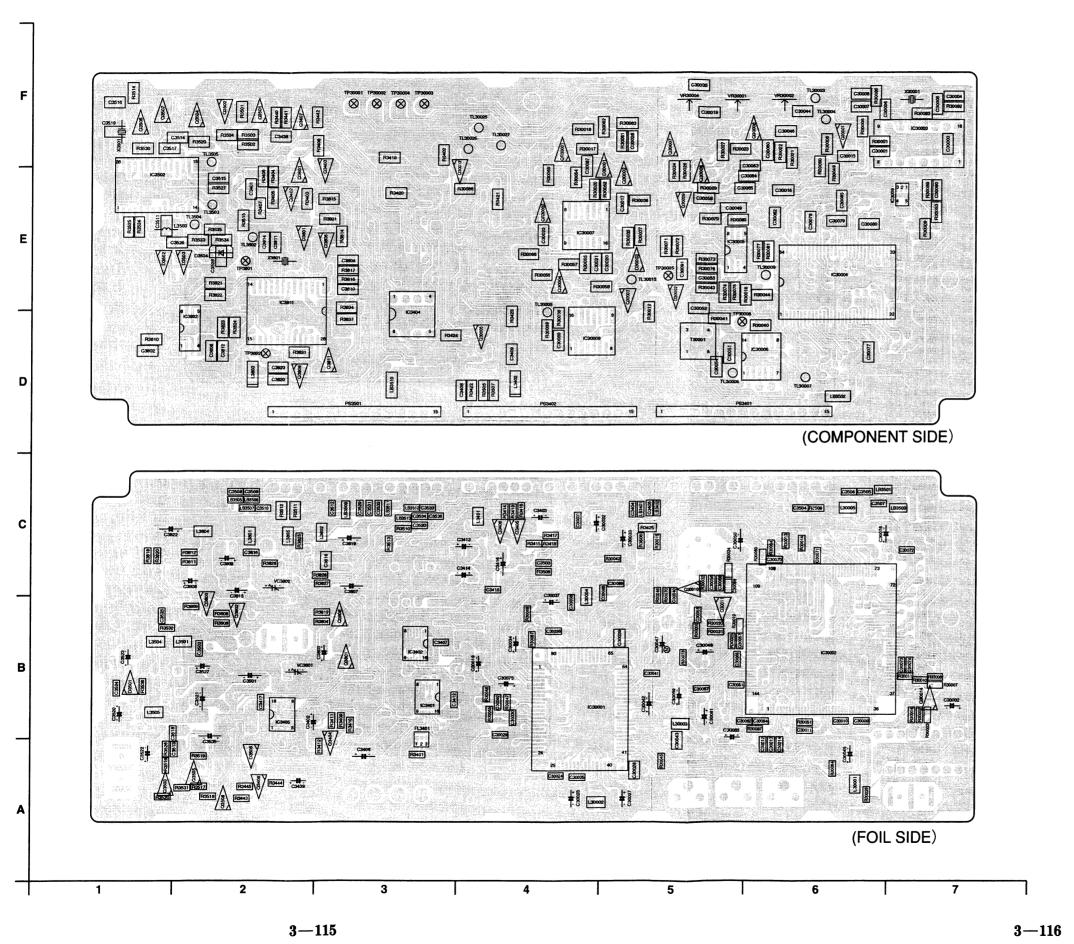
THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.





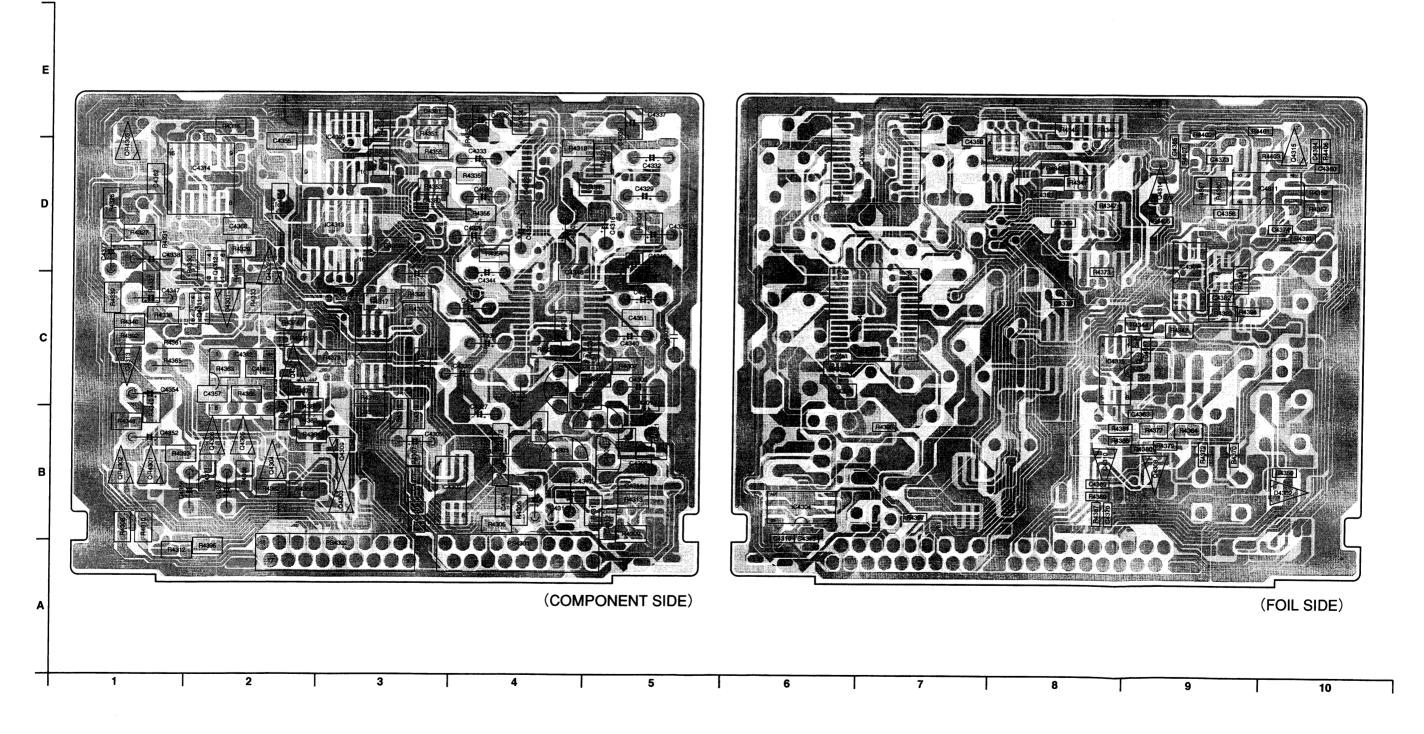
(COMPONENT SIDE)

3—114



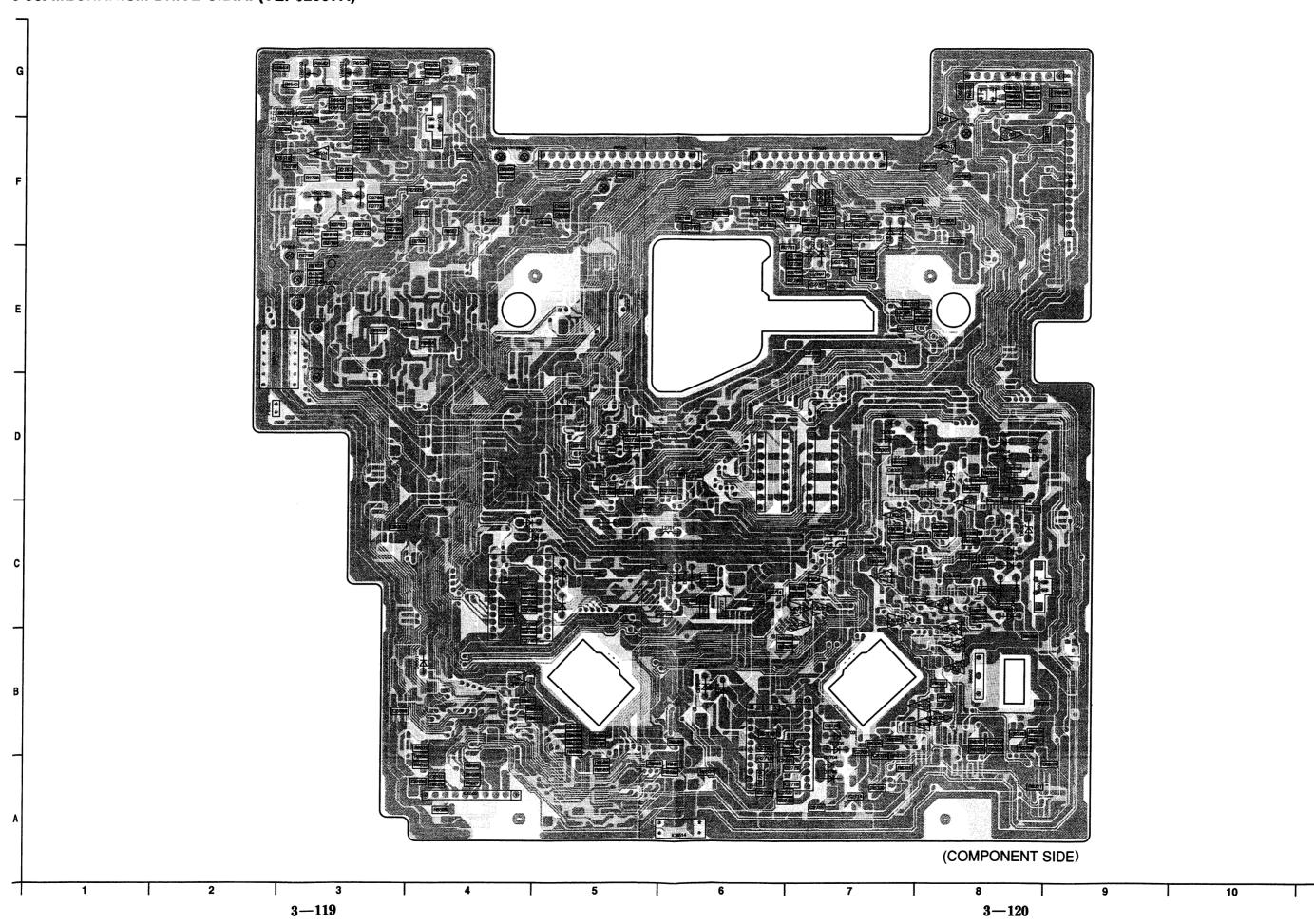
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Transistor		IC3801	E-2
Q3401	E-2	IC3802	D-2
Q3402	E-2	IC30001	B-4
Q3403	E-3	IC30002	B-6
Q3404	A-3	IC30003	F-7
Q3405	C-4	IC30004	E-6
Q3406	C-4	IC30005	E-5
Q3407	F-2	IC30006	D-6
Q3408	A-2	IC30007	E-4
Q3501	F-2	IC30008	D-4
Q3502	F-2	IC30009	E-7
Q3502 Q3503	A-1		
Q3503 Q3504	F-2	Test Point	
Q3505	A-2	TL3503	E-2
Q3505 Q3506	F-1	TL3503	E-2
Q3507	F-1	TL3505	F-2
Q3507 Q3508	A-2	TL3802	E-2
Q3801	B-3	TL30003	F-6
Q3802	B-3 B-2	TL30003	F-6
Q3803	B-2	TL30005	E-4
Q3806	E-3	TL30006	D-5
Q3808	B-3	TL30007	D-6
Q3809	D-2	TL30009	E-6
Q3811	D-3	TL30015	E-5
Q30001	F-6	TL30025	F-4
Q30002	E-5	TL30026	F-4
Q30003	E-5	TL30027	F-4
Q30004	E-4	TP3801	E-2
Q30005	D-4	TP3802	D-2
Q30006	F-6	TP30001	F-3
Q30007	F-5	TP30002	F-3
Q30008	E-5	TP30003	F-3
Q30009	E-5	TP30004	F-3
Q30010	C-5	TP30005	E-5
Q30011	B-5	TP30006	D-5
Q30012	E-3	 	
Q30014	B-7	Adjustment	
Transistor & Re	esistor	VC3801	B-2
QR30001	F-4	VR30001	F-5
QR30001	E-4	VR30002	F-6
Integrated Circ	uit	VR30004	F-5
IC3401	B-3	Connector	
IC3402	B-3		
IC3404	D-3	PS3401	D-5
IC3405	B-2	PS3402	D-4
IC3502	E-1	PS3501	D-3

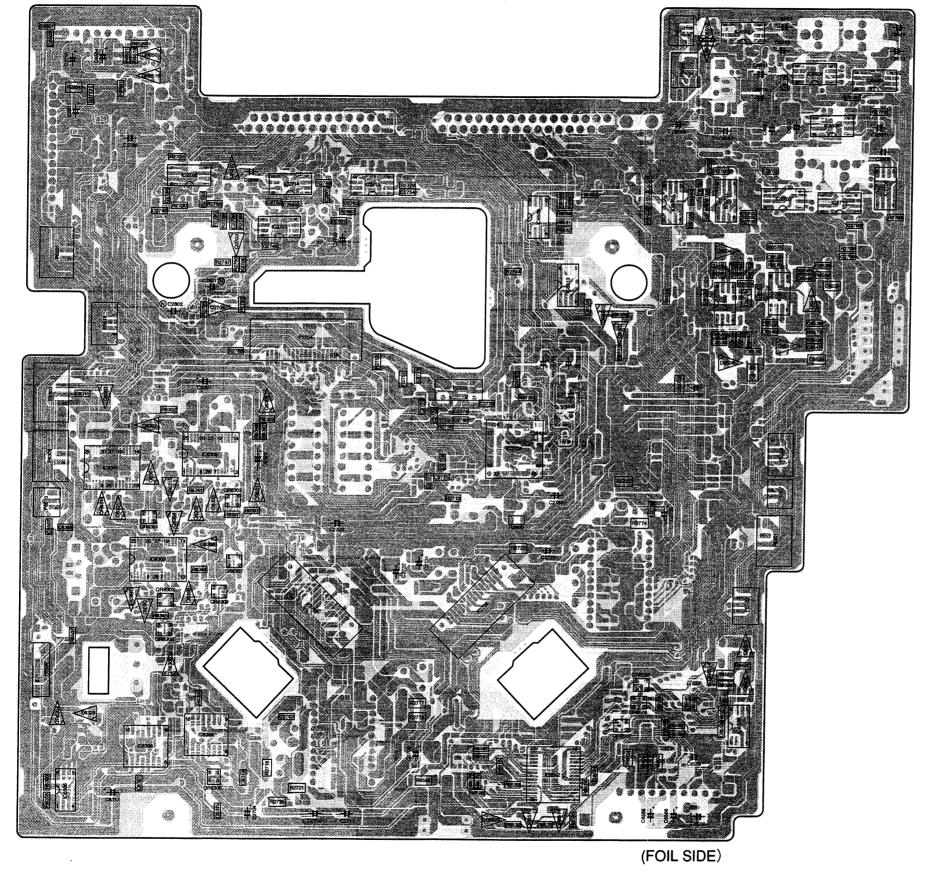
			AUDI	O C.B.A.				
Transistor		Q4310	B-8	Integrated Circ	cuit	IC4310	D-8	
Q4301 Q4302 Q4303 Q4304	B-5 C-2 B-3 B-2	Q4311 Q4312 Q4313 Q4314 Q4315	C-2 D-2 C-1 D-9 D-10	IC4301 IC4302 IC4303 IC4304	B-4 B-3 B-5 B-6	IC4311 IC4312 IC4313 IC4314 IC4315	D-9 C-2 D-3 D-2 C-8	
Q4305 Q4306	B-2 B-2 Transistor & Resistor	esistor	IC4305 IC4306	C-3 D-6	IC4316	C-4		
Q4307	C-2		B-1	IC4307	D-9	Connector		
Q4308 Q4309	B-9 B-3	QR4302 QR4303	B-1 D-1	IC4308 IC4309	C-6 E-3	PS4301 PS4302	A-4 A-3	



3—117

3—118

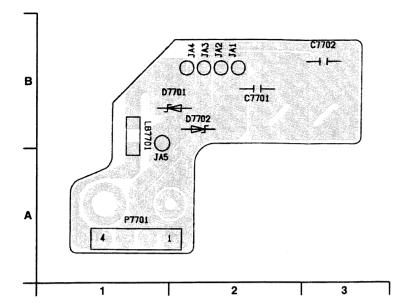




	MECHANIS	M DRIVE C.B.A.	
Transistor		IC2715	F-13
Q2701	F-8	IC6301	D-11
Q2701	1	IC6302	D-12
1	E-12	IC6303	C-12
Q2704	E-12	IC6304	B-12
Q6301	D-12	IC6305	A-11
Q6302	D-12	IC6306	B-12
Q6303	C-12	IC6502	A-4
Q6304	C-12	IC6502	G-17
Q6305	C-12		1
Q6306	C-12	IC6504	G-17
Q6307	D-11	IC6505	F-17
Q6308	D-12	IC6506	B-16
Q6502	E-15	IC6507	F-16
Q6503	B-16	IC6508	F-15
Q6504	F-3	IC6509	E-16
Q6505	B-16	IC6510	E-16
		L IC6511	G-16
Transistor & I	Resistor	IC6512	A-15
QR2701	F-12	IC6513	E-15
QR6301	C-12	IC6514	A-6
QR6302	C-12		
QR6303	C-12	Test Point	
QR6304	B-11	TL2701	E-3
QR6305	B-12	1	1
QR6306	A-12	TL2702	E-3
QR6307	C-12	TP2701	E-3
QR6308	ı	TP2702	E-3
	B-12	TP2703	E-3
QR6309	C-12	TP2704	E-3
QR6314	C-11	TP6501	E-3
QR6315	C-12	TP6502	F-4
QR6316	C-12	TP6503	F-4
QR6317	C-12	TP6404	F-5
QR6318	C-7	TP6505	F-8
QR6501	G-12	ļ	<u> </u>
QR6502	E-15	Adjustment	
QR6503	A-14	VR2701	F-3
QR6504	B-16	VR2702	F-3
QR6505	B-15	VR6501	
QR6506	B-15	VR6502	G-3 G-3
QR6507	B-15	¥110302	u-3
QR6508	G-8	Connector	L
QR6511	B-4		
QR6514	A-15	P2701	C-13
QR6515	A-15	P2702	C-14
QR6516	G-12	P2703	D-14
QR6517	1		
	F-8	P2704	E-13
		P2704 P2705	E-13 F-9
Integrated Circ			
Integrated Circ		P2705	F-9
Integrated Circ	uit	P2705 P6301	F-9 C-16
Integrated Circ	uit F-16	P2705 P6301 P6302	F-9 C-16 D-11
Integrated Circ IC2701 IC2702	F-16 F-16	P2705 P6301 P6302 P6303	F-9 C-16 D-11 D-11 E-11
Integrated Circ IC2701 IC2702 IC2703	F-16 F-16 B-7	P2705 P6301 P6302 P6303 P6501 P6502	F-9 C-16 D-11 D-11 E-11 D-2
Integrated Circ IC2701 IC2702 IC2703 IC2704	F-16 F-16 B-7 C-4	P2705 P6301 P6302 P6303 P6501 P6502 P6503	F-9 C-16 D-11 D-11 E-11 D-2 G-16
Integrated Circ IC2701 IC2702 IC2703 IC2704 IC2705	F-16 F-16 B-7 C-4 F-17 F-12	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7
Integrated Circ IC2701 IC2702 IC2703 IC2704 IC2705 IC2706 IC2707	F-16 F-16 B-7 C-4 F-17 F-12 E-13	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504 P6505	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7 F-5
Integrated Circ IC2701 IC2702 IC2703 IC2704 IC2705 IC2706 IC2707 IC2708	F-16 F-16 B-7 C-4 F-17 F-12 E-13 D-14	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504 P6505 P6506	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7 F-5 G-16
Integrated Circ IC2701 IC2702 IC2703 IC2704 IC2705 IC2706 IC2707 IC2708 IC2709	F-16 F-16 B-7 C-4 F-17 F-12 E-13 D-14 D-6	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504 P6505 P6506 P6507	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7 F-5 G-16 C-16
Integrated Circ IC2701 IC2702 IC2703 IC2704 IC2705 IC2706 IC2707 IC2707 IC2708 IC2709 IC2710	F-16 F-16 B-7 C-4 F-17 F-12 E-13 D-14 D-6	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504 P6505 P6506 P6507 P6508	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7 F-5 G-16 C-16 D-16
Integrated Circ IC2702 IC2703 IC2704 IC2705 IC2706 IC2707 IC2708 IC2708 IC2710 IC2711	F-16 F-16 B-7 C-4 F-17 F-12 E-13 D-14 D-6 D-6 D-7	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504 P6505 P6506 P6507 P6508 P6509	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7 F-5 G-16 C-16 D-16 B-11
Integrated Circ IC2702 IC2703 IC2704 IC2705 IC2706 IC2707 IC2708 IC2709 IC2710 IC2711 IC2712	F-16 F-16 B-7 C-4 F-17 F-12 E-13 D-14 D-6 D-6 D-7 D-7	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504 P6505 P6506 P6507 P6508 P6509 P6510	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7 F-5 G-16 C-16 D-16 B-11 C-11
Integrated Circ IC2702 IC2703 IC2704 IC2705 IC2706 IC2707 IC2708 IC2708 IC2710 IC2711	F-16 F-16 B-7 C-4 F-17 F-12 E-13 D-14 D-6 D-6 D-7	P2705 P6301 P6302 P6303 P6501 P6502 P6503 P6504 P6505 P6506 P6507 P6508 P6509	F-9 C-16 D-11 D-11 E-11 D-2 G-16 F-7 F-5 G-16 C-16 D-16 B-11

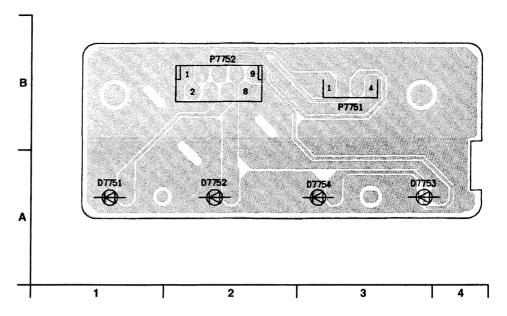
11 12 13 14 15 16 17 18 19 20 3—121 3—122

3-57. IR C.B.A. (VEP07968A)



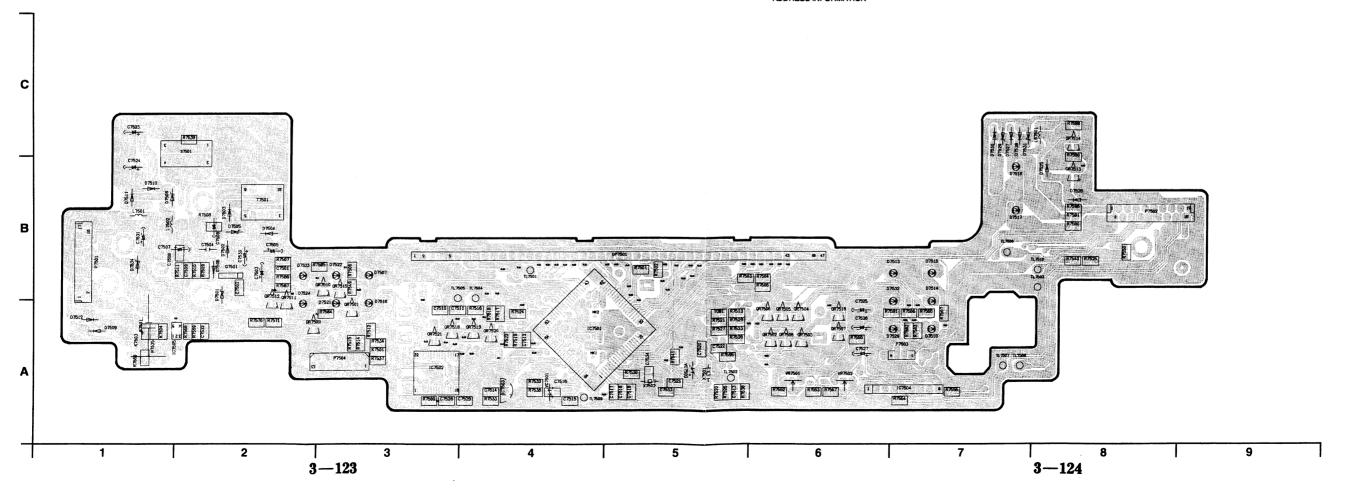
3-58. TIMER C.B.A. (VEP07A05A)

3-59. FRONT LED C.B.A. (VEP07965A)

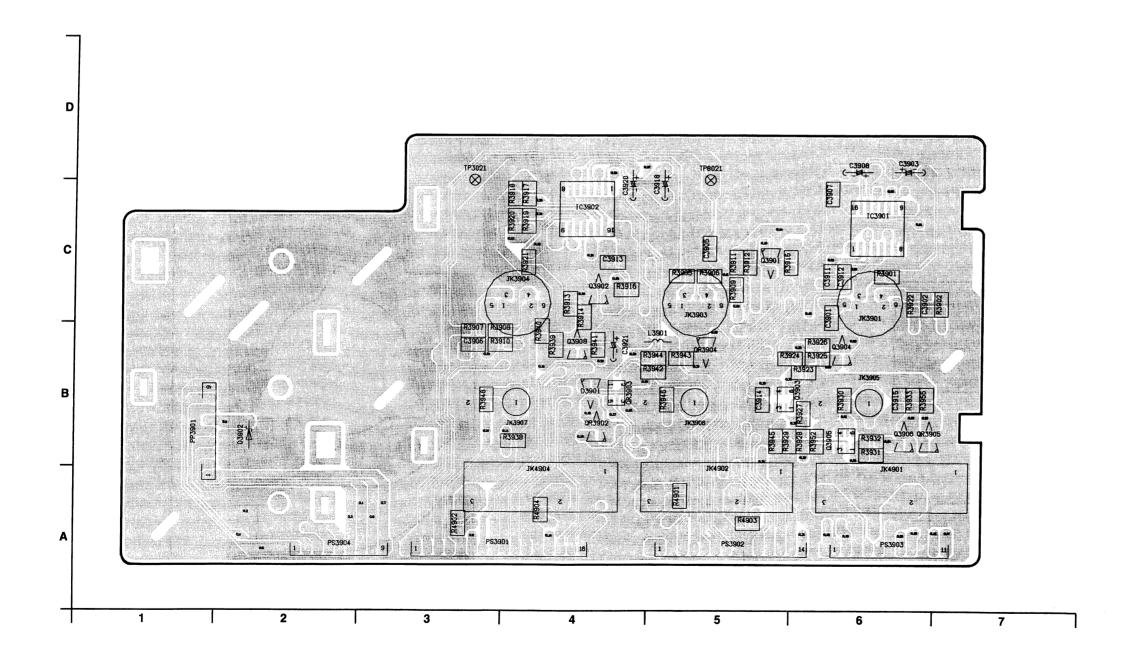


	TIMER C.B.A.											
Transistor		QR7508 A-6		QR7520	A-4	Test-Point		Adjustment				
Q7501	B-2	QR7509 A-2 QR7510 B-3 QR7511 B-2	QR7510 B-3	A-3	TL7501 TL7502	B-4 A-5	VC7501 VC7502	A-3 A-5				
QR7501 A-3	QR7511 B-2 QR7512 B-2 QR7513 B-8	Integrated Circuit IC7501 A-4		TL7503 TL7504 TL7505	B-8 B-4 B-3	VR7501 VR7502	A-6 A-6					
QR7502 QR7503 QR7504 QR7505 QR7506	A-6 A-6 A-6 A-6 A-6	QR7514 QR7515 QR7516 QR7518	C-8 B-3 A-6 A-3	IC7502 IC7503 IC7504 IC7505	A-3 A-4 A-7 A-2	TL7506 TL7507 TL7508 TL7509	B-7 A-7 A-7 A-4	P7501 P7502 P7503	B-2 B-8 A-7			
QR7507	A-6	QR7519	A-4			TL7510	B-8	P7504	A-3			

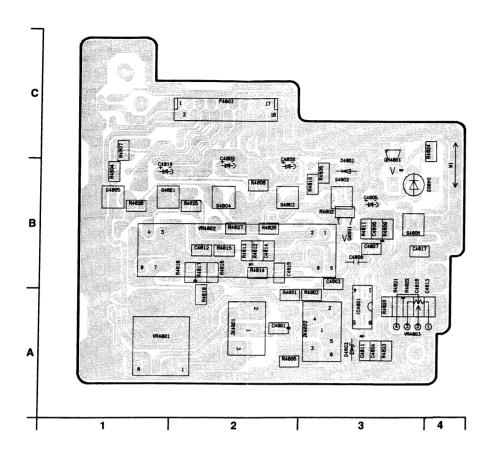
ADDRESS INFORMATION



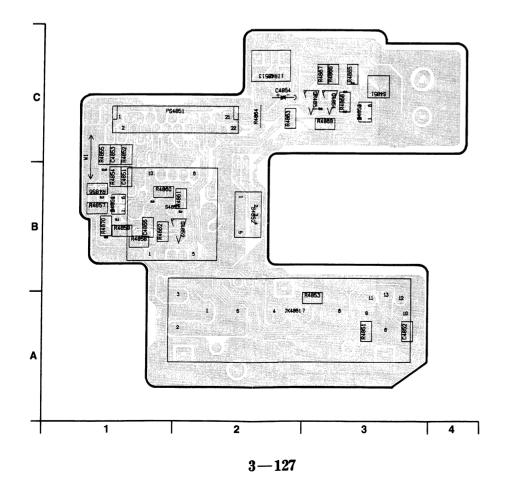
	INPUT/0	DUTPUT C.B.A.				
Fransistor		Integrated Circ	Integrated Circuit			
Q3901	E-6	IC3901	E-8			
Q3902	E-5	IC3902	C-5			
Q3903	C-7		L			
Q3904	D-8	Test Point				
Q3905	C-8	TP3021	D-6			
Q3906	C-8	TP8021	D-7			
Q3907	B-7	1 002.	5.,			
Q3908 Q3909	B-5 B-7	Connector				
Q3909	B-7	PP3901	B-2			
ansistor & R	esistor	PS3901	A-5			
OD2000	0.5	PS3902	A-7			
QR3902 QR3903	D-5 D-5	PS3903	A-9			
QR3904	D-5 A-5	PS3904	A-3			
QR3905	C-7	1				

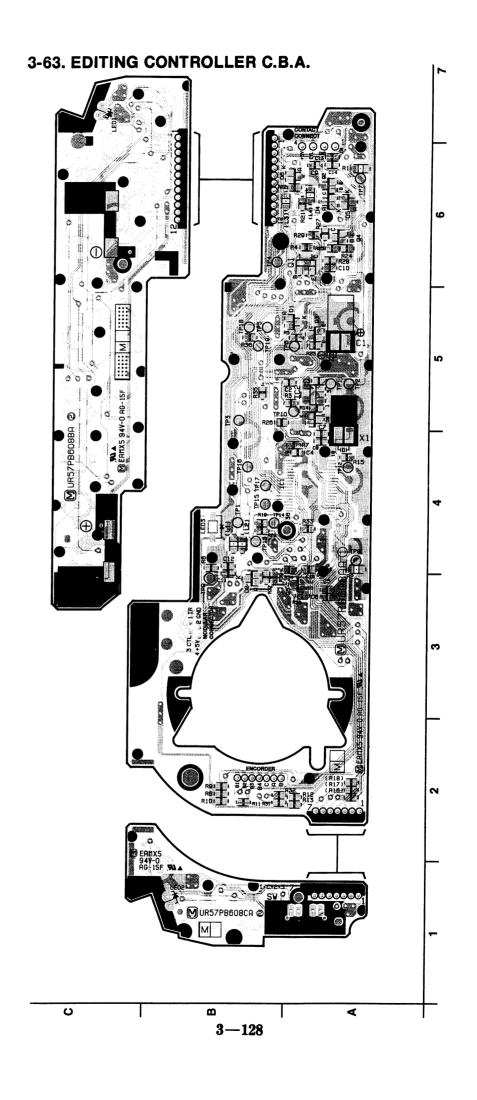


3-61. FRONT (L) C.B.A. (VEP03E90A)



3-62. FRONT (R) C.B.A. (VEP04728A)





ORDER NO. VSD9812M224B

Service Manua

Volume, 2



Digital Cassette Video Recorder

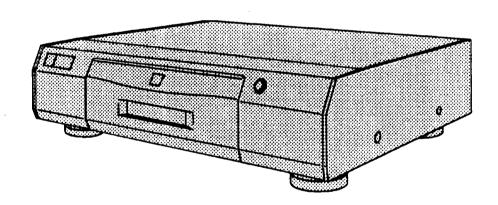
AG-DV200

Sec. 4 Service Information

Electrical Adjustment Sec. 5 **Procedures**

Sec.6

Exploded Views/ Parts Lists



Please refer to the Service Manual Model AG-DV2000P Volume 1 (Order No. VSD9812M224A) for Operating Instructions, Disassembly Procedures, Adjustment Procedures, Block Diagrams, Schematic Diagrams and Circuit Board Diagrams.

> Weight and dimensions shown are approximate. Specifications are subject to change without notice

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION

This Service Manual Volume 2 contains technical information such as Service Information, Electrical Adjustment Procedures and Exploded Views / Parts Lists which service personnel to understand and service the Panasonic Digital Video Cassette Recorder model AG-DV2000P.

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ELECTRICAL ADJUSTMENT PROCEDURES	SECTION 5
EXPLODED VIEWS / PARTS LISTS	SECTION 6

SECTION 4

SERVICE INFORMATION

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4. SERVICE INFORMATION

4-1. SERVICE INFORMATION DISPLAY

The Service Information Display on the front panel, there are four digits divided into 3 functions, Service mode, Service Data Number and Service Information Number.

This information aids trouble shooting by indicating the source of the malfunction. The service mode number and service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technical to provide a more accurate repair cost estimate and reduce repair time.

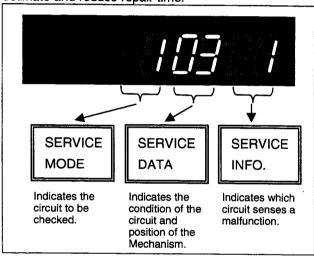


Fig. S1 Service Information Display

4-1-1. Set Service Mode

Press the FF and Eject button simultaneously. The display will change "0.**:**

Pressing the FF and Eject button simultaneously will change the Service Mode Number as follows.

Mode 1: Check tape protection circuit

Mode 2: Check tape transport mechanism

Mode 3: Check mode switching operation

Mode 4: Check tray in / out operation

Mode 5: Check control buttons

Mode 6: Check mode switching and solenoid operations

Mode 7: Check loading / unloading operation

The first digit indicates which of the above 7 service modes that the unit is currently in.

The second and third digits are service data that indicate the condition of the circuit or mechanism being checked as shown in Figure S2. The forth digit is the service information display. It is to be used by the

consumer to help determine the source of a malfunction. The service information display operates independently of the service mode and stores the fault indication in memory for as long as AC power is not supplied.

not supplied.									
Service	Service	Indication							
Mode No.	Data No.								
1	00	Light detec	ted both	sensors					
Tape	01	Tape begin	ning.						
Beg./End		Light to S.	sensor is	blackene	ed				
Detect	02	Tape end.							
		Light to T. s	ensor is	blackene	d				
	03	No light de	tected eit	hersens	or.				
2	03	Cassette d	own.						
Mecha.	05	H/L position	n.						
Position	07	Middle pos	ition.						
Detect	09	Stop position	on.						
	33	Tray open	osition.						
3	0*,2*,3*	Tray-in-→S							
Process	6*	Stop-→Pla							
Mode	8*	Play-→Cue		ch)					
Detect	9*	Play-→Rev							
	n*	Stop-→FF/REW							
	2*	Loading							
	L*	Unloading							
4	1*	Tray-in con	dition.						
Tray	*2 → *3→	Tray-out co							
Process	*4→*00								
Mode									
Detect									
5	00	Stop							
Mode	02	REW							
Detect	03	FF							
	04	REV (R Se	arch)						
	05	Cue (F Sea	arch)						
	08	Play							
	0U	Rec							
6		Solenoid	Pinch	S reel	T reel				
Mecha.	1U	Stop	ON	OFF	OFF				
Position	16	FF/REW	OFF	OFF	OFF				
Detect	2U	Tray In/Out	OFF	ON	ON				
	29	Loading	OFF	OFF	ON				
7		The loading	g motor re	otates for	loading				
Check		operation			-				
Load/		pressed a			-				
Unload		"STOP" key	is press	ed.					
Operation		(Without ca	ssette ta	pe)					

Fig. S2 Service mode Number

4-1-2. Error Message

This VTR has a self-diagnosis and display function. If the VTR detects an error during operation, one of the following Error Message Codes will automatically appear on the and error display. Error Message codes are displayed in the form of a single English letter plus two numbers such as "H01".

Note:

 The indication "H" of "F" is displayed on the FIP, and the power is automatically turned off.
 When the power is turned on again, the Fault Indication Code will disappear and the unit will return to normal display mode (either clock or counter). This Error Message Code will be stored in the Timer microprocessor even with the AC plug disconnected.

The two-digit number portion of the stored Code Message Code can be redisplayed on the display's "second" display position (the last 2 digits on the light) by placing the unit is Service Mode Number 2 when turning on Service Information Display as foe example "01" or "02" etc.

If a second error occurs, only the most recent error will be displayed and stored.

To erase the stored Error Message Code data, press "FF" and "Eject" button simultaneously more than 5 seconds.

Error		Condition	Cause	Remedy/Check
H	H01	Cylinder Lock	After Cylinder lock is detected, the Cylinder does not start rotating again even after tape unloading.	Check the cylinder drive
	H02	Capstan Lock	Cassette tape is not wound up during tape unloading.	Check the capstan drive
F	F03	Loading Lock	Mechanism locks during tape loading.	1. Check the loading drive.
	F04	Unloading Lock	Mechanism locks during tape unloading.	Check the mode switch and Gears phase on the mechanical chassis.
	F05	Reel FG Detection	Detects abnormal condition during tape loading / unloading.	Check the tension sensors, S reel and T reel drive.
	F06	Tray In Lock	Tray Motor locks during Tray In.	1. Check the tray drive.
	F07	Tray out lock	Tray Motor locks during Tray Out.	Check the gears phase on the tray section.
	F08	Tension Sensor Detection	Detects abnormal condition during tape loading.	Check the tension sensor, S reel and T reel drive.

Fig. S3 Self-Test Indication Display

4-2. MANUAL EJECT

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually.

There are 2 methods to remove the cassette as follows.

4-2-1. Battery Operation

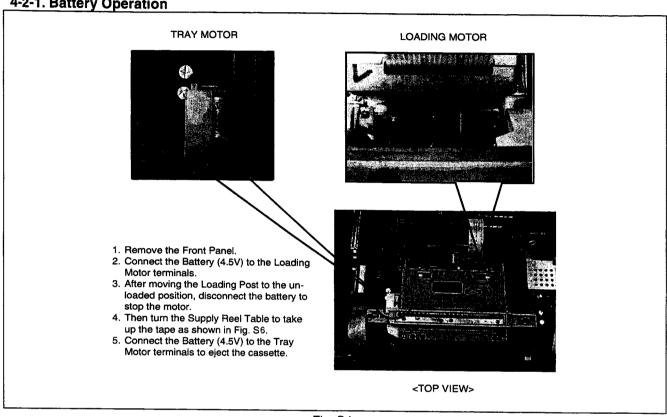


Fig. S4

4-2-2. Hand Operation

1. Unload the loading post by turning the loading motor

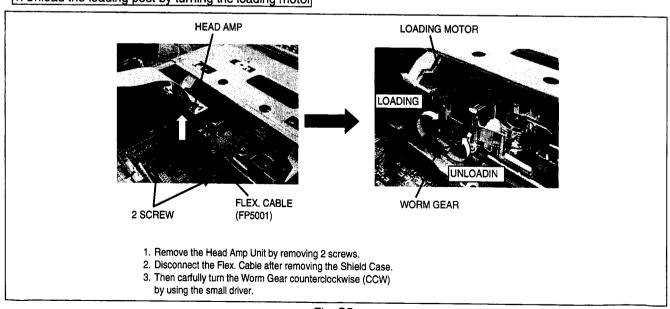


Fig. S5

2. Take up the tape by turning the supply reel table

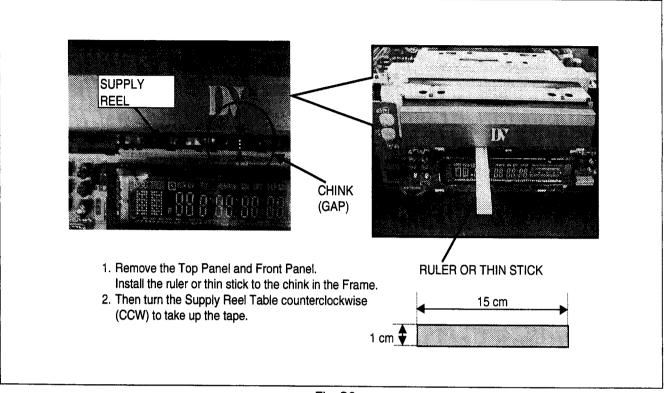


Fig. S6

3. Eject the tray by turning the tray motor

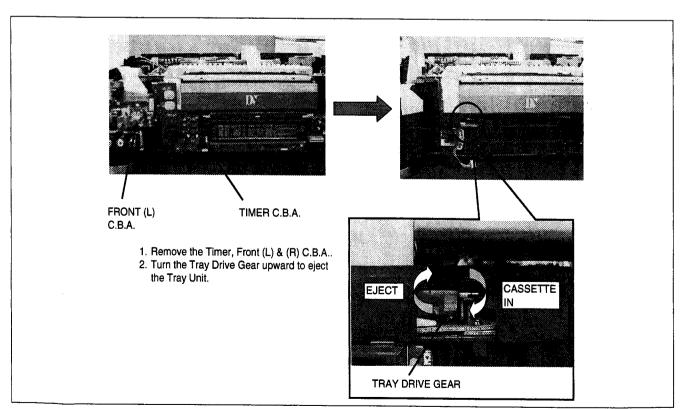


Fig. S7

4-3. SPECIAL FIXTURESAND TOOLS

In order to keep the factory adjustment specifications, the following special tools should be used to conduct mechanical and electrical adjustments, and servicing.

4-3-1. Electrical Adjustments and Servicing VFK1409 **VFK1410** VFK1317 Measuring Board Connection Board 30pin Flat Cable Ordinary RS-232C Cross (Needs 2 cables) Cable VFK1405 VFK1406 VFK1407 VFK1408 Audio Extender Board Digital Extender Board Y/C Extender Board Motor Extender Board VJA0941 VFK1436 VFK1448 VFK1445 DC Cable 14pin Extender Cable 12pin Extender Cable 26pin Flat Cable (For Measuring Board) VFK1446 VFK0849 VFK1484 VFM3010EDS 32 Flat Cable 20pin Flat Cable **EVR Software** Alignment Tape (Color Bar)

Fig. S8

4-3-2. Mechanical Adjustments

4-3-2. Mechanical Adjus	iments		
VFK1348A	VFK1450	VFK1151	VFK1149
Neutral Plate	Post Height Fixture	Box Driver	Post Driver
		2.5mm	
VFK1188	VFK1217	VFK1426	VFM3010EDS
Dial Tension Gauge	49% Sensor Cassette	6% Sensor Cassette	Alignment Tape
			(Color Bar)
VFK1155	VFK1156	VFK1208	
Neutral Position Tool	Neutral Position Tool	Neutral Position Tool	
(REV/White)	(PLAY/Black)	(NEUTRAL/ Black w/Hole)	

Fig. S9

4-3-3. Extender Board and Cable

User the following Extender Boards and Cables when checking individual circuit boars or mechanical chassis unit.

No.	Part No.	Part Name	Conn	ection	Q'ty	Remarks
1	VFK1405	Audio Connection C.B.A.	Main C.B.A.	- Audio C.B.A.	1	
2	VFK1406	Digital Connection C.B.A.	Main C.B.A.	- AV Digital C.B.A.	1	
3	VFK1407	Y/C Connection C.B.A.	Main C.B.A.	- Analog Y/C C.B.A.	1	
4	VFK1408	Motor Connection C.B.A.	Main C.B.A.	- Motor Drive C.B.A.	1	
5	VFK0849	20P Flat Cable	Digital FP3201	- Head Amp FP5002	1	
6	VFK1445	26P Flat Cable	Main P6703	- Mech. P6504	1	
7	VFK1446	32P Flat Cable	Main P6701	- Mech. P6505	1	
7	VFK1436	14P Extension Cable	Motor Power P2502	- Mech. P2705	2	
9	VFK1448	12P Extension Cable	Main P6707	- Power P1102	1	

Fig. S10

4-3-4. Usage of Extender Board and Cable

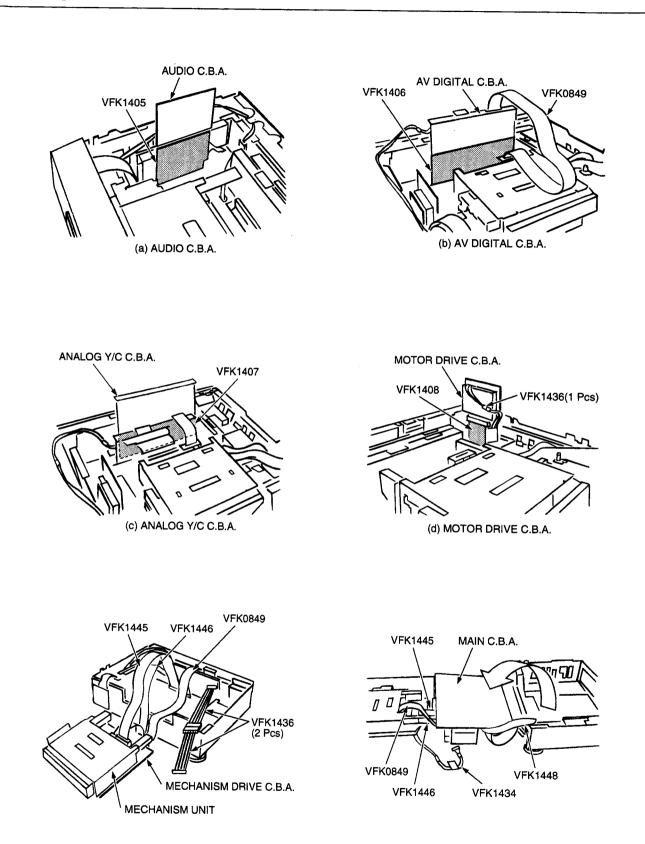


Fig. S11

4-3-5. Summary Table of Special Fixtures and Tools

Part No.	JIG & EQUIPMENT	DVCPRO	AG-EZ30/20	PURPOSE	REMARK
VFK1409	Measuring Board	N	N	Part of PC EVR System	New
VFK1410	Connection Board	N	N	Part of PC EVR System	New
VFK1317	30pin Flat Cable	N	Υ	Part of PC EVR System	
VFK1405	Audio Extender Board	N	N	Extension of Audio Board	New
VFK1406	Digital Extender Board	N	N	Extension of Digital Board	New
VFK1407	Y/C Extender Board	N	N	Extension of Analog Y/C Board	New
VFK1408	Motor Extender Board	N	N	Extension of Motor Drive Board	New
VJA0941	DC Cable	N	Υ	DC Power Supply to VFK1409	New
VFK1436	14pin Extender Cable	N	N	Extension of Motor Drive Board	New
VFK1448	12pin Extender Cable	N	N	Extension of Main Board	New
VFK1445	26pin Flat Cable	N	N	Extension of Main Board	New
VFK1446	32pin Flat Cable	N	N	Extension of Main Board	New
VFK0849	20pin Flat Cable	N	N	Extension of Mecha. Chassis	New
VFK1484	EVR Software	N	N	Program for PC EVR System	New
VFM3010EDS	Alignment Tape (C Bar)	Y	Y	General Confirmation	
VFK1348A	Neutral Plat	Y	N	Post Height Adjustment	New
VFK1450	Post Height Fixture	N	N	Post Height Adjustment	New
VFK1151	Box Driver	Υ	N	Post Height Adjustment	
VFK1149	Post Driver	Y	Y	Post Height Adjustment	
VFK1188	Dial Tension Gauge	Y	N	Tape Tension Adjustment	
VFK1217	49% Sensor Cassette	N	Y	Sensibility of Tape Beg/End Detector Adjustment	
VFK1426	6% Sensor Cassette	N	N	Sensibility of Tape Beg/End Detector Adjustment	New
VFK1155	Neutral Position Tool (White)	Y	N	Tape Tension Adjustment	
VFK1156	Neutral Position Tool (Black)	Y	N	Tape Tension Adjustment	
VFK1208	Neutral Position Tool (Hole)	Y	N	Tape Tension Adjustment	

Y: Can be used for DVCPRO or/and AG-EZ30/20,

N: Cannot be used for DVCPRO or/and AG-EZ30/20

Fig. S12

4-4. PC EVR System

PC EVR System as shown in figure S13 is needed for some of electrical adjustment.

More details of the PC EVR System and adjustment procedures, please refer to the Electrical Adjustment Procedures Section (Section 2) in this service manual.

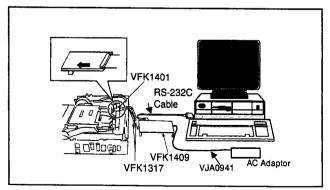


Fig. S13

SECTION 5

ELECTRICAL ADJUSTMENT

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5. ELECTRICAL ADJUSTMENT PROCEDURES

5-1. PREPARATION

To perform electrical adjustments completely, the following measuring equipment should be prepared.

5-1-1. Measuring Equipment

Equipment		Specification	
Dual-Trace Oscilloscope	Voltage Range	0.001 to 50V/Div.	
	Frequency Range	DC to 100MHz	
	Probes	10:1, 1:1	
DVM (Digital Volt Meter)	Voltage Range	0.001 to 50V	
Frequency Counter	Frequency Range	0 to 150MHz	

Fig. E1

5-1-2. Special Fixtures and Tools

Please refer to the Service Information Section in this service manual.

5-1-3. PC EVR System

The table in figure E2 shows the all electrical adjustments, some of the adjustments need the PC EVR System.

Menu	Adjustment	Nasality of PC EVR	Menu	stments need the PC EVR Syste Adjustment	Nasality of PC EVR
SERVO	Reel Offset Adjustment	System	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		System
ADJUSTMENT		No	VIDEO	VCO 28MHz adjustment	No
MENU	Tension Arm Offset Adjustment	No	ADJUSTMENT MENU	Dot Lock Adjustment	No
	3 . Tension Arm neutral Adjustment	No		3. E-E Y Level (1) Adjustment	No
	Tension Arm Play Level Adjustment	No		4. E-E Y Level (2) Adjustment	No
	5. Tension Arm Rev Position Confirmation	No		5. Play C Level Adjustment	No
	6. Tension Arm Spring Adjustment	No		6. VCO 41MHz Adjustment	Necessary
	7. Reverse Tension Confirmation	No		7. RF / VITERBI Adjustment	Necessary
	8. PG Shifter Adjustment (Automatic)	Necessary		Video Input Y Level Adjustment	Necessary
	Sensitivity adjustment of tape sensors	No		Video Input C Level Adjustment	Necessary
				Horizontal Picture Position Adjustment	Necessary
				11. Write Product ID	Necessary
			AUDIO ADJUSTMENT	Level meter adjustment	No
			MENU		
		l	INENU		

Fig. E2

Figure E3 shows the overall system connection of the PC EVR System.

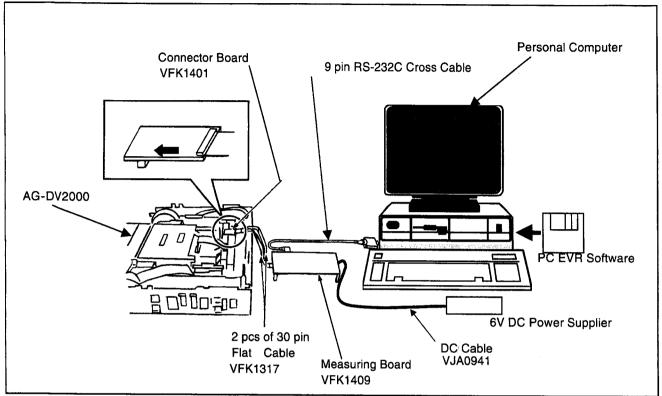


Fig. E3

5-2. PC EVR System Hook up Procedures

- Connect 2 pcs of the 30 pin flat cables between the Measuring Board and EVR Connection Board as shown below.
- Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connection Board is as shown in figure E4.

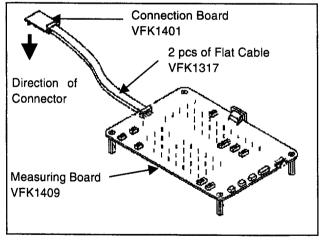


Fig. E4

3. Set the Connector Board with the 30 pin Cables to the unit as shown in Figure below. Make sure that the direction of the Connection Board is correctly fit.

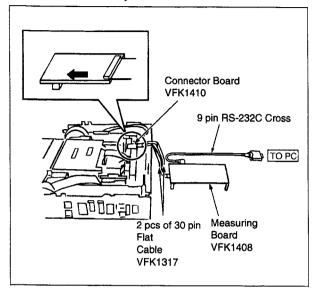


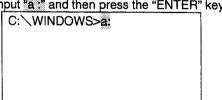
Fig. E5

- 4. Connect a 9 pin RS-232C cable between the Measuring Board and RS-232C connector on the Personal Computer as shown in figure E5.
- 5. Connect the 4 pin 6V/DC Power cable between AC adaptor or DC power supply unit..

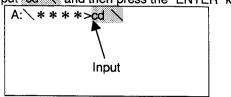
5-3. PC EVR SOFTWARE

5-3-1. BOOT UP THE SOFTWARE

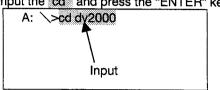
- 1. Power ON the Personal Computer. Windows 95 is set up (AUTO).
- 2. Restart the PC in Dos mode.
- 3. Insert the EVR software floppy disk into the FD drive of the PC.
- 4. Boot up the EVR program as the following steps.
 - 1) Input "a:" and then press the "ENTER" key.



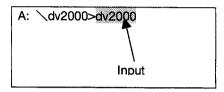
2) Input "cd \times" and then press the "ENTER" key.



3) Input the "cd" and press the "ENTER" key.



4) input the "dv2000" and then press the "ENTER"



- Wait for a few seconds so that the EVR adjustment program is started.
- 6. For the adjustments, follow the program display.

5-3-2. How to Use the Main Menu

Select a Sub Menu to check, adjust the unit and etc. by pressing † \(\text{ (UP/DOWN)}\) Key in Main Menu. Then, press "ENTER" Key. The Sub Menu will be displayed.

Note: Menu (pages) 4 through 6 are needed for adjustment.

With using the keys, also the menu can be changed.

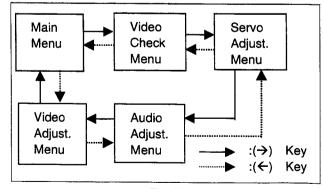


Fig. E6

5-3-3. Introduction of the Sub Menu

MAIN MENU 1. VIDEO CHECK. 2. SERVO ADJUSTMENT. 3. VIDEO ADJUSTMENT. 4. AUDIO ADJUSTMENT. 5. INFORMATION. 6. DISPLAY TYTLE SCREEN. 7. RESTART [PC EVR] SYSTEM. 8. END

Fig. E7

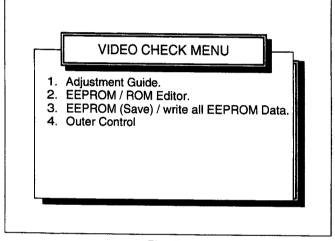


Fig. E8

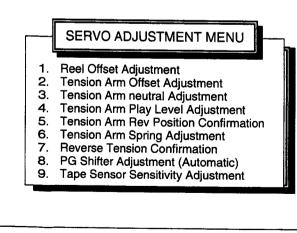


Fig. E9

VIDEO ADJUSTMENT MENU VCO Adjustment 1. 2. Dot Lock Adjustment E-E Y Level (1) Adjustment 3. E-E Y Level (2) Adjustment 4. 5. Playback C Level Adjustment VCO 41MHz Adjustment 6. RF / VITERBI Adjustment 7. Video Input Y Level Adjustment Video Input C Level Adjustment 9. 10. Horizontal Picture Position Adjustment 11. ID Writing

Fig. E10

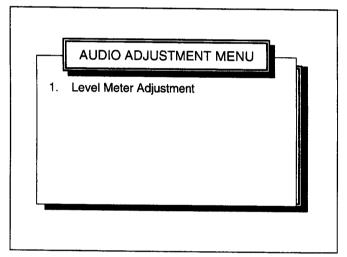


Fig. E11

5-3-4. Restoration of Connecting Error

This program checks connecting condition with the deck all the time.

When the deck power is off or reset, or cable is disconnected during servicing, restart the program by pressing "CTRL" key and "BREAK" key together.

5-3-5. **EEPROM**

Some of adjustment data have been stored in the EEPROM in the Digital C.B.A.

Be sure to save the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

5-3-5-1. How to Save the EEPROM Data

- 1) Select "1. VIDEO CHECK" in the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- Select "2. Save all EEPROM data" in Read (Save) / Write All EEPROM data menu, and then press the "Enter" key.
- Input the File name, and then press "Enter" key.
 The data of EEPROM will be stored in the personal computer.

5-3-5-2. How to REWRITE Saved data

When it becomes impossible to adjust during service and adjustment, rewrite the saved data which stored in the personal computer and readjust.

- Select "1. VIDEO CHECK" in the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- Select "3. Writing from stored data file" in Read (Save) / Write All EEPROM data menu, and then press the "Enter" key.
- Input the saved file name, and then press the "Enter" key.
- 5) The stored data is written in the EEPROM.

5-3-5-3. Digital C.B.A. Replacement

In case that the Digital C.B.A. is replaced, be sure to write the data to EEPROM on the Digital C.B.A. as follows.

- 1. Select "1. VIDEO CHECK" In the Main menu, and then press the "Enter" key.
- 2. Select "3. Read (Save) / Write All EEPROM data" in
- the Video check menu, and then press the "Enter" key.
- Select "3. Writing from stored data files." In Read (Save) / Write All EEPROM data menu, and then press the "Enter" key. Input the saved file name, and

then press the "Enter" key.

OR:

Select "4. Writing of fixed / average values," and then press the "Enter" key. And press the "Enter" key once again.

Then, input ID Number as follows.

5-3-5-4. How to Input ID Number

When writing ID Number from the saved data which is stored in 5-3-5-1.

- 1. Select "2. Check [Video]." In the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- 3. Select "5. Writing ID from the stored file." In Read [Save]/Write All EEPROM data menu, and then press the "Enter" key. Input the saved file name, and then press the "Enter" key.
- 4. The ID Number will be written automatically.

When the original ID information can not be read because of the destruction of EEPROM etc.:

- 1. Select "1. VIDEO ADJUSTMENT" in Main menu, and then press "Enter" key.
- 2. Select "9. Write products ID" in the Video adjustment menu, and then press the "Enter" key.
- ID Number will be written automatically. (If the deck has no ID, it may cause problem on the IEEE1394 communication and etc.

5-4. ADJUSTMENT PROCEDURES

5-4-1. Servo Section

5-4-1-1. Reel Offset Adjustment

[Take up Reel Offset Adjustment]

TP	TP2701 (T ET), TP2702 (T GND)
ADJ.	VR2702 (T VR)
TAPE	Mini DV
TOOL	
MODE	Cassette Down (Stop)
M.EQ	D.V.M.
SPEC.	0 ± 1mV

[T Reel Offset Adjustment]

- 1. Set a cassette on the tray and make the cassette down condition.
- Connect the Digital Volt Meter to TP2701 (T ET) and TP2702 (T GND).
- Adjust VR2702 (T VR) so that the voltage is 0 ± 1mV

[Supply Reel Offset Adjustment]

TP	TP2703 (S ET), TP2704 (S GND)	
ADJ.	VR2701 (S VR)	
TAPE	Mini DV	
TOOL		
MODE	Cassette Down (Stop)	
M.EQ	D.V.M.	
SPEC.	0 ± 1mV	

[S Reel Offset Adjustment]

- Set a cassette on the tray and make the cassette down condition.
- Connect the Digital Volt Meter to TP2703 (S ET) and TP2704 (S GND).
- 3. Adjust VR2701 (S VR) so that the voltage is 0 \pm 1mV.

[Tension Adjustment]

Flowchart in the figure below shows the tension adjustment steps.

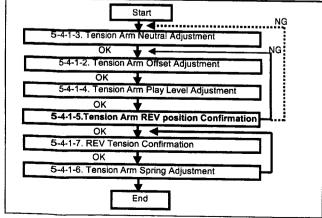


Fig. E12

5-4-1-2. Tension Arm Offset Adjustment

TP	TP6502 (TP2), TP6503 (TP3)	
ADJ.	VR6501 (TEN SET)	
TAPE	Mini DV	
TOOL		
MODE	Cassette Down (Stop)	
M.EQ	D.V.M.	
SPEC.	0 ± 0.03V	

- Set a cassette on the tray and make the cassette down condition.
- 2. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- Adjust VR6501 (TEN SET) so that the voltage 0 ± 0.03V.

5-4-1-3. Tension Arm Neutral Adjustment

TP	TP6502 (TP2), TP6503 (TP3)	
ADJ.	Tension Regulator Base	
TAPE		
TOOL	VFK1208 (Black with Hole)	
MODE	Loading Condition (Service Mode 7)	
M.EQ	D.V.M.	
SPEC.	0 ± 0.06V	

- Remove the Tray Unit.
- 2. Set VFK1208 (black with hole) on the Supply Post Base (A) as shown in Figure E14.
- Place the unit into the no tape-loading mode by using the Service Mode described as follows.
 - 1. Press the "FF" and "Eject" buttons simultaneously in eight times to set the Service Mode No. 7.
 - 2. Place the mechanism in the loading condition as follows.
 - (1) Close the tray close switch (S6501) on the Mechanism Drive C.B.A. by using adhesive tape as shown below.
 - (2) Close the tray down switch (S6502) by depressing with your finger.
 - (3) Press the PLAY button for the loading operation.

(Press the STOP button for unloading.)

- 4. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- 5. Loosen the screw (A).
- 6. Adjust the Tension Regulator Base so that the voltage is 0 ± 0.06V by moving the (D) portion with tweezers that are not magnetized.
- 7. Then tighten the screw (A).

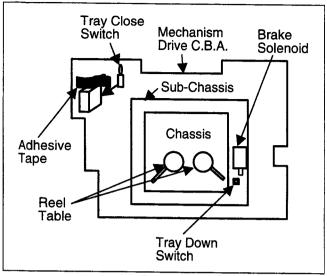


Fig. E13

<Caution>

Don't touch the S. Reel with magnetized driver or magnetized tweezers, when adjusting "D" portion.

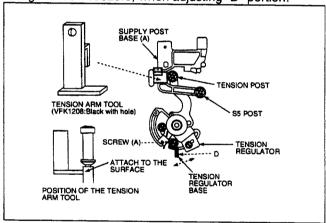


Fig. E14

5-4-1-4. Tension Arm Play Level Adjustment

	- site is the state of the stat
	TP6502 (TP2), TP6503 (TP3)
ADJ.	VR6502 (TEN GAIN)
TAPE	
TOOL	VFK1156 (Black)
MODE	Loading Condition (Service Mode 7)
M.EQ	D.V.M.
SPEC.	0.92 ± 0.03V

- 1. Remove the Tray Unit.
- 2. Set VFK1156 (black without hole) on the Supply Post Base (A) as shown in Figure E15.
- Place the unit into the no tape-loading mode by using Service Mode. (Refer to the step 3 of paragraph 5-4-1-3)

- 4. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- 5. Adjust the VR6502 (TEN GAIN) so that the voltage is $0.92 \pm 0.03V$

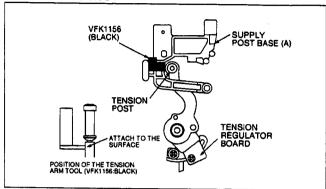


Fig. E15

5-4-1-5. Tension Arm REV position Confirmation

TP	TP6502 (TP2), TP6503 (TP3)	
ADJ.		
TAPE		
TOOL	VFK1155 (White)	
MODE	Loading Condition (Service Mode 7)	
M.EQ	D.V.M.	
SPEC.	-0.92 ± 0.2V	

- 1. Remove the Tray Unit.
- Set VFK1155 (white) on the Supply Post Base (A) as shown in Figure E16.
- 3. Place the unit into the no tape loading mode by using Service Mode. (Refer to step 3 of paragraph 5-4-1-3)
- 4. Connect the Digital Volt Meter to TP6502 (TP2) and TP6503 (TP3).
- 5. Confirm that the voltage is in the specification.
- 6. If it is out of the specification, readjust "5-4-1-3. Tension Arm Neutral Adj." and "5-4-1-4. Tension Arm Play Voltage Adjustment.".
- If it is still out of specification, replace the Tension Post unit and readjust the Tension Arm Adjustment from "5-4-1-2. Tension Arm Offset Adjustment".

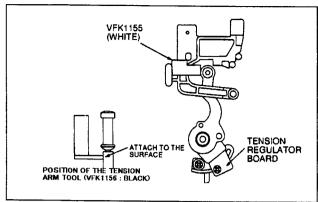


Fig. E16

5-4-1-6. Tension Arm Spring Adjustment

S : C: CHICLET ATTI OPTING Adjustment		
TP	TP6502 (TP2), TP6503 (TP3)	
	Tension Post	
ADJ.	Tension Regulator Spring Position	
TAPE		
TOOL	VFK1188 (Dial Tension Gauge)	
MODE	Loading Condition (Service Mode 7)	
M.EQ	D.V.M., Dial Tension Gauge	
SPEC.	0.92V (Play Position), 11 ± 1gf	

- 1. Remove the Tray Unit.
- 2. Place the unit into the no tape loading mode by using Service Mode. (Refer to step 3 of paragraph 5-4-1-3)
- 3. Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3)
- 4. When pressing the R portion of the Tension Post in arrow direction by Dial Tension gauge (VFK1188) until the voltage becomes 0.92V the Tension regulator Spring position (Hook B) so that the tension is in the specification 11 ± 1gf.

5. Tighten screw (C).

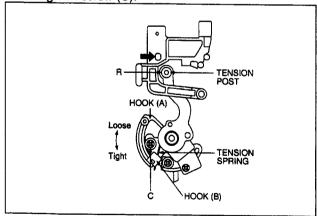


Fig. E17

5-4-1-7. REV Tension Confirmation

TP	TP6502 (TP2), TP6503 (TP3)	
	Tension Post	
ADJ.	Position of Tension Spring	
TAPE		
TOOL	VFK1188 (Dial Tension Gauge)	
MODE	Loading Condition (Service Mode 7)	
M.EQ	D.V.M., Dial Tension Gauge	
SPEC.	-0.92V (REV Position), 18 ± 2gf	

- Remove the Tray Unit.
- Place the unit into the no tape loading mode by using Service Mode. (Refer to step 3 of paragraph 5-4-1-3)
- 3. Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- When pressing the R portion of the Tension Post in arrow direction by Dial Tension Gauge (VFK1188) until the voltage becomes -0.92V (REV Position) as shown in Figure E18, confirm the tension is in the specification 18 ± 2gf.
- 5. If it is not, adjust "5-4-1-6. Tension Regulator Spring Adj." again.
- Grew the screw A, B and C after Tension Arm Adjustment. The grew quantity at B portion is half of A and C portions as shown in Figure E18.

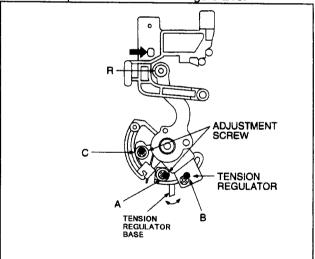


Fig. E18

5-4-1-8. PG Shifter Adjustment

	- C Cimio / Aujuctino iii
TP	
ADJ.	PC EVR (AUTO)
TAPE	CCLOR BAR ALIGNMENT TAPE
INPUT	
MODE	PLAY
M.EQ	OSCILLOSCOPE
SPEC.	126.5 usec +/- 2usec

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- Connect the oscilloscope CH1 to HID1 test point on the Measuring Board and CH2 to SPA test point on the Measuring Board.
- 4. Play back the color bar alignment tape.
- 5. Press the "ENTER" key of PC so that PG shifter is automatically adjusted.
- 6. Make sure that the timing "A" is 126.5usec +/- 2usec.
- 7. Set the LSI TEST Switch on the Measuring Board at the NOR position.

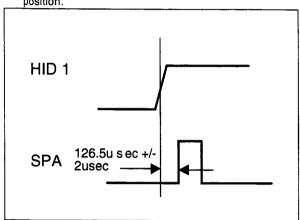


Fig. E19

5-4-1-8. Tape Sensor Sensitivity Adjustment [Supply Photo Sensor Adjustment]

TP	TP6501, TP6504 (S Photo)
ADJ.	DIP SW (S6504)
TAPE	Sensor Cassette
T001	VFK1426 (6%), VFK1217 (49%),
TOOL	Sensor Cassette
MODE	Stop
M.EQ	D.V.M.
SPEC.	0.5 - 1.0V, Refer to Figure E7

- 1. Set all of the DIP SW (S6504) to ON.
- 2. Insert the 6% Sensor Cassette VFK1426.
- Connect the Digital Volt Meter between TP6501 and TP6504 (S Photo).
- 4. Adjust the DIP SW as shown in Figure E20.
- Confirm that the tape is not loaded when installing the 49% Sensor Cassette VFK1217.
- 6. If the tape is loaded when install the 49% Sensor Cassette readjust this adjustment.

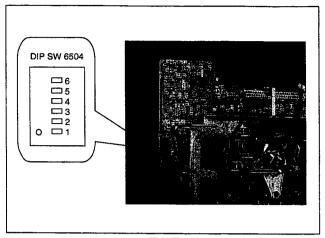


Fig. E20

[Take up Photo Sensor Adjustment]

Trake up Photo Sensor Adjustment		
TP	TP6501, TP6505 (T Photo)	
ADJ.	DIP SW (S6504)	
TAPE	Sensor Cassette	
TOOL	VFK1426 (6%), VFK1217 (49%),	
1001	Sensor Cassette	
MODE	Stop	
M.EQ	D.V.M.	
SPEC.	0.5 - 1.0V, Refer to Figure E8	

- 1. Set all of the DIP SW (S6504) to ON.
- 2. Insert the 6% Sensor Cassette VFK1426.
- 3. Connect the Digital Volt Meter between TP6501 and TP6505 (T Photo).
- 4. Adjust the DIP SW as shown in Figure E20.
- 5. Confirm that the tape is not loaded when installing the 49% Sensor Cassette VFK1217.
- If the tape is loaded when install the 49% Sensor Cassette, readjust this adjustment.

[Supply Sensor]

1000000	4: A		
TP6501-TP6504 VOLTAGE	DIP SW (S6504) ADJUSTMENT PROCEDURES	RESULT OF THE ADJUSTMENT	REMARKS
When the voltage is 0 - 0.5V	 Change only SW6 to OFF Change only SW5 to OFF Change SW5 and 6 to OFF Change only SW4 to OFF Change SW4 and 6 to OFF Change SW4 and 5 to OFF 	If the voltage is not $0.5-1.0V$, proceed to the item 2. If the voltage is not $0.5-1.0V$, proceed to the item 3. If the voltage is not $0.5-1.0V$, proceed to the item 4. If the voltage is not $0.5-1.0V$, proceed to the item 5. If the voltage is not $0.5-1.0V$, proceed to the item 6.	If the voltage is in the specification (0.5 – 1.0V), this adjustment is done.
When the voltage is 0.5 – 1.0V	This adjustment is not necessary.		
When the voltage is more than 1.0V	NG Replace the Supply Photo Sensor. Th	en readjust this adjustment.	

Fig. E21

[Take up Sensor]

TP6501-TP6505 VOLTAGE	DIP SW (S6504) ADJUSTMENT PROCEDURES	RESULT OF THE ADJUSTMENT	REMARKS
When the voltage is 0 - 0.5V	 Change only SW1 to OFF Change only SW2 to OFF Change SW1 and 2 to OFF Change only SW3 to OFF Change SW1 and 3 to OFF Change SW2 and 3 to OFF 	If the voltage is not $0.5-1.0V$, proceed to the item 2. If the voltage is not $0.5-1.0V$, proceed to the item 3. If the voltage is not $0.5-1.0V$, proceed to the item 4. If the voltage is not $0.5-1.0V$, proceed to the item 5. If the voltage is not $0.5-1.0V$, proceed to the item 6.	If the voltage is in the specification (0.5 – 1.0V), this adjustment is done.
When the voltage is 0.5 – 1.0V	This adjustment is not necessary.		
When the voltage is more than 1.0V	NG Replace the Take up Photo Sensor. T	hen readjust this adjustment.	

Fig. E22

5-4-2. Video Section

5-4-2-1. VCO (28MHz) Adjustment

TP30006 / TP30005 T30001 (Y/C C.B.A.)
T30001 (Y/C C.B.A.)

Color Bar
-E
Frequency Counter, DVM
28.636 +/- 0.05MHz
=

- Remove the Analog Y/C board and remove the shield cover of the analog Y/C board.
- Extend the Analog Y/C board with the Extender Board (VFK1407).
- Supply an external 2.5V +/- 0.1VDC to TP30005 and GND.
- 4. Supply a standard color bar signal to the line (composite) input.
- 5. Connect the frequency counter to TP30006.
- Adjust T30001 so that the frequency is 28.636MHz +/-0.05MHz.
 - Note: 1) The adjustment specification should be confirmed when the adjustment driver is away from T30001.
 - Make sure that the adjusted position of the core of T30001 is lower end side, not upper end side.
- 7. Remove the DC supply cable from TP30005 and connect the volt meter to TP30005.
- 8. Confirm that the voltage at TP30005 is 2.5V +/- 0.1VDC.

5-4-2-2. Dot Clock Adjustment

	
TP	TP3801 (on analog C.B.A.)
ADJ.	VC3802 (on analog C.B.A.)
TAPE	
INPUT	
MODE	E-E
M.EQ	Frequency Counter
SPEC.	7.00MHz +/- 0.01MHz

- Remove the Analog Y/C board and remove the shield cover of the analog Y/C board.
- Extend the Analog Y/C board with the Extender Board (VFK1407)Connect a short jumper wire between TP3802 and GND (pin 28 of IC3801).
- Connect the frequency counter to TP3801.
- 4. Adjust VC3802 so that the frequency is 7.00MHz +/-01MHz.

5-4-2-3. E-E Y Level (1) Adjustment

TP	TP3021 (I/O C.B.A.) or S-Video Connector (Y)	
ADJ.	VR30004 (Y/C C.B.A.)	
TAPE		
INPUT	Color Bar to Y/C Input (S-Video)	
MODE	E-E	
M.EQ	Oscilloscope	
SPEC.	TP3021 : 2.0Vp-p +/- 0.1V	
	S-Video : 1.0Vp-p +/- 0.05V (with 75 ohm)	

- Open the OSD and set the 3D NR in the Standard mode.
- 2. Connect the oscilloscope to TP3021. (or Y output of S-Video Output with 75 ohm termination).
- Adjust VR30004 so that Y level is 2.0Vp-p +/- 0.1V (1.0Vp-p +/- 0.05V at the Y output of S-Video Output with 75 ohm termination.)

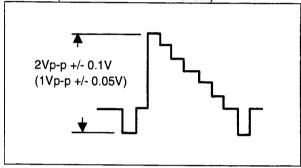


Fig. E23

5-4-2-4. E-E Y Level (2) Adjustment

	· · · · · · · · · · · · · · · · · · ·	
TP	TP3021 (I/O C.B.A.) or S-Video Connector (Y)	
ADJ.	VR30001	
TAPE		
INPUT	Color Bar to Line Input	
MODE	E-E	
M.EQ	Oscilloscope	
SPEC.	TP3021 : 2.0Vp-p +/- 0.1V	
	S-Video : 1.0Vp-p +/- 0.05V (with 75 ohm)	

- Open the OSD and set the 3D NR in the Standard mode.
- Connect the oscilloscope to TP3021. (or Y output of S-Video Output with 75 ohm termination). Adjust VR30001 so that Y level is 2.0Vp-p +/- 0.1V (1.0Vp-p +/- 0.05V at the Y output of S-Video Output with 75 ohm termination.)

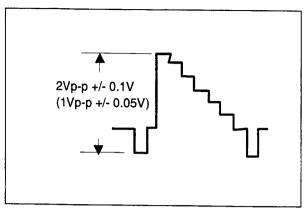


Fig. E24

5-4-2-5. Playback C Level Adjustment

TP	TPTP8021 (I/O CBA) or C out of S-Video	
ADJ.	VR30002 (Y/C CBA)	
TAPE	Color Bar Self Recorded Tape	
INPUT	Standard Color Bar	
MODE	REC/PB -→ PLAY	
M.EQ	Oscilloscope	
SPEC.	TP8021 : 572Vp-p +/- 40mV	
	S-Video:286mV+/-20mmV (with 75 ohm Termination)	

- 1. Open the OSD and set the 3D NR in the Standard mode.
- Supply a standard color bar signal to the Line (composite) input and record it for a few minutes.
- 3. Play back the portion just recorded.
- 4. Connect the oscilloscope to TP8021. (or C output of S-Video Output with 75 ohm termination.).
- Adjust VR30002 so that burst level is 572mVp-p +/-40mV (or 286 mV +/- 20mV at the C output of S-Video Output with 75 ohm termination.)

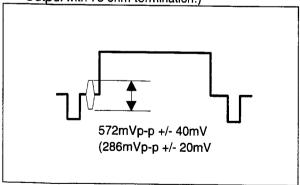


Fig. E25

5-4-2-6. VCO (41MHz) Adjustment

TP	[VCO] on Measuring Board
ADJ.	PC EVR (AUTO)
TAPE	
INPUT	
MODE	E-E
M.EQ	PC EVR System / Frequency Counter
SPEC.	41.85MHz +/- 200KHz

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- 3. Place the deck in the E-E mode.
- 4. Press the "ENTER" key of PC so that VCO frequency is automatically adjusted.
- 5. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-7. RF / VITERBI Adjustment

ТР	TP3008 (H.SW), VIDEO
ADJ.	PC EVR (AUTO)
TAPE	SP Color Bar Self Recorded Tape
INPUT	
MODE	
M.EQ	SCOPE
SPEC.	Less than 100 (L and R) (Auto)

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- 3. Set a color bar SP self recorded tape onto the deck.
- 4. Press the "TAB" key on the adjustment mode so the automatic adjustment is performed.
- 5. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-8. Video Input Y Level Adjustment

TP	
ADJ.	PC EVR (AUTO)
TAPE	
INPUT	50% or 75% White Flat Field
MODE	Automatic
M.EQ	PC EVR System
SPEC.	Automatic

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- 3. Supply 50% or 75% white flat field signal to the line (composite) input.
- 4. Press the "ENTER" key of PC in the PC EVR System.
- 5. Adjust the DAC so that the resister value is 7E +/- 2 (Hex) (50% color bar input) or B4 +/- 2 (Hex) (75% color bar input).
- 6. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-9. Video Input C Level Adjustment

TP	
ADJ.	
TAPE	PC EVR (AUTO)
INPUT	
MODE	Automatic
M.EQ	PC EVR System
SPEC.	Automatic

- 1. Set and boot the PC EVR System.
- 2. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- Supply 40% and same phase as burst signal color signal to the line (composite) input.

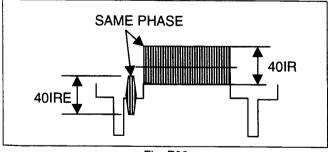


Fig. E26

- 4. Press the "ENTER" key of PC in the PC EVR System.
- 5. Adjust the DAC so that the resister value is 9A +/- 02

Note: If the above signal is not available, input the average data.

6. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-10. Horizontal Picture Position Adjustment

TP	LINE OUT
ADJ.	PC EVR (AUTO)
TAPE	
INPUT	COLOR BAR
MODE	STOP / AUTO
M.EQ	Monitor TV
SPEC.	Less than 1mm on 20" monitor TV

- Set the deck (A) to be adjusted, master deck which has been well adjusted (B) and monitor TV which has 2 inputs as shown in the figure below.
- 2. Connect a DV cable (IEEE1394) between the decks as shown in the figure below.
- 3. Supply a color bar signal to the deck (A) as shown in the figure below.

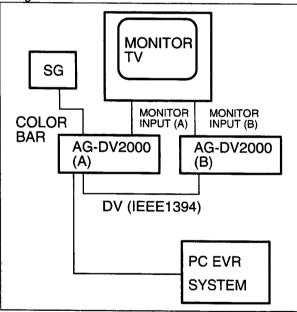


Fig. E27

- 4. Connect the PC EVR System to the deck (A) and boot it.
- 5. Set the LSI TEST Switch on the Measuring Board at the TEST position.
- Alternately select the monitor input switch either (A) or
 input and observe the E-E pictures of decks (A) and
 (B).
- Adjust the data so that the horizontal position of E-E pictures (A) and (B) are equal (less than 1mm on 20" monitor TV).

8. Set the LSI TEST Switch on the Measuring Board at the NOR position.

5-4-2-11. ID Writing

Note: 1) The ID writing should be made only when the data in EEPROM have been changed.

- 2) If the deck dose not have an ID, communication problem may occur on the system of IEEE1394.
- 1. Set and boot the PC EVR System.
- 2. After completion of the preparation, press the ."ENTER" key of the PC.

(Please refer to paragraph 5-3-5-4. In mere details.)

5-4-3. Audio Section

5-4-3-1. Level Meter Adjustment

TP	VU METER
ADJ.	VR7501(L), VR7502(R)
TAPE	
INPUT	1kHz, -10dBv SINE WAVE
MODE	E-E
M.EQ	,
SPEC.	0dB INDICATION

- Supply 1KHz, -10dBv sine wave signal to the Audio L1 line inputs (R) and (L).
- 2. Set the audio level VR's at the center position.
- 3. Adjust VR7501(L) and VR7502(R) so that the audio VU meters indicate 0dB points.

SECTION 6

EXPLODED VIEWS & PARTS LISTS

CONTENTS

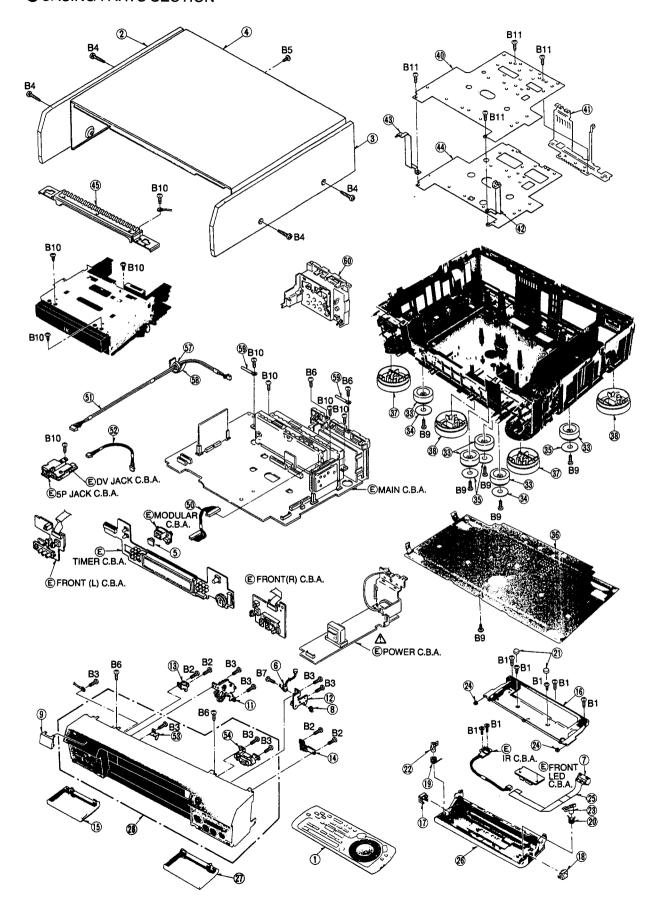
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1.CASING PARTS SECTION ······6-1	Ì
2.CHASSIS PARTS SECTION (1)	
3.CHASSIS PARTS SECTION (2)	
4.SUB CHASSIS PARTS SECTION	
5. CASSETTE TRAY PARTS SECTION	
6.PACKING PARTS SECTION · · · · · · · · · · · · · · · · · · ·	
7.EDITING CONTROLLER PARTS SECTION	
6-2.ELECTRICAL REPLACEMENT PARTS LIST ······ 6-1	



6.EXPLODED VIEWS & PARTS LIST

6-1.EXPLODED VIEWS & MECHANICAL REPLACEMENT PARTS LIST

OCASING PARTS SECTION



Note: 1. 'Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

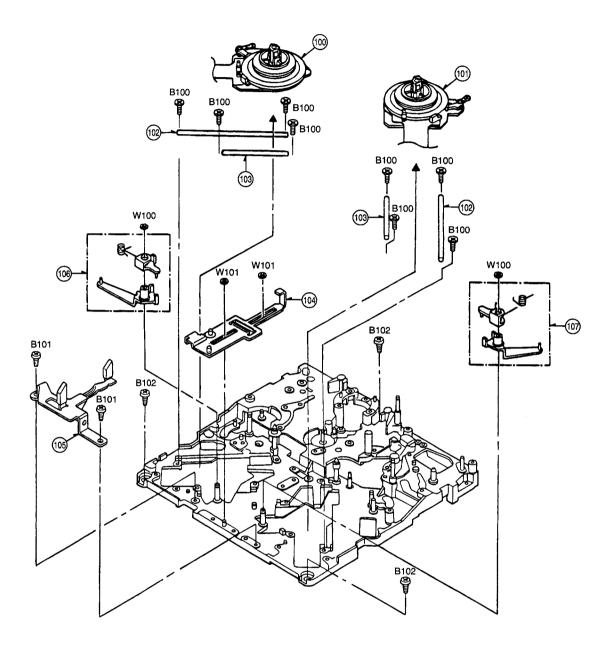
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		its, use only the same type.		, , ,				L	
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	T	·	Т	1	ı				
Ref. No.	Part No.	Part Name & Descriptio	rPc	Remarks	.			L	
								Π	
1	EUR571503	EDITING CONTROLLER	1					T	
2	VGK2447	SIDE PANEL (L)	1		1	T		1	
3	VGK2448	SIDE PANEL (R)	1		l			 	
4	VGM1 493	TOP PANEL	1		·			-	
5			+		 	<u> </u>		┞-	
	VGQ4455	MODULAR CAP	1						
6	VSP1082	FRONT SW ASS'Y	1		l L	L			
7	VGQ2807	FLEXIBLE CABLE HOLDER	1						<u> </u>
8	VJFO496	CLAMPER	1		1			\vdash	
9	VKW2399	IR WINDOW	1	 	l 	 		├	
	VXA6018	·····	+		ł	ļ		L.	
11		DOOR ANGLE (L) ASS'Y	1		 			L.	
12	VXA6019	DOOR ANGLE (R)	1		l L	1			
13	VXA6045	DAMPER ANGLE (L) ASS Y	1	1					
14	VXA6046	DAMPER ANGLE (R) ASS'Y	1		i i				
15	VYF2566	DOOR (L) ASS' Y	1		i			<u> </u>	
16	VGP4571		+	· · · · · · · · · · · · · · · · · · ·	 				
		DOOR PANEL	1						
17	VGU7567	LOCK BUTTON (L)	1						
18	VGU7568	LOCK BUTTON (R)	1]				Γ~	-
19	VMB3186	LOCK LEVER SPRING (L)	1		1			T	†
20	VMB:3187	LOCK LEVER SPRING (R)	1				 	Η-	† · · · · · · · · · · · · · · · · · · ·
21	VMG0837	RUBBER BUSH (A)	2				<u> </u>	-	
			+					<u> </u>	
22	VML3269	LOCK LEVER (L)	1		 			L	
23	VML3270	LOCK LEVER (R)	1		L	L		_	
24	VMTO212	CUSHION RUBBER	2					Г	
25	VWJ1199	FLAT CARD CABLE (9P)	1	P7752-P7504				Η-	<u> </u>
26	VYF2565	DOOR (C) 1 ASS Y	1		l 			-	
27	VYF2568	DOOR (R) ASS Y	+					<u> </u>	
			1						
28	VYP 7097	FRONT PANEL (1) ASS'Y	1						
33	VKAO301	CERAMIC LEG	5					_	
34	VMG1 031	LEG SHEET A	2						
35	VMG1 049	LEG SHEET B	3					<u> </u>	
36	VKU0528	BOTTOM PLATE	1		ļ			L	
			-		ļ				
37	VKAO310	LEG (F)	2						
38	VKA0311	LEG (R)	2						
40	VMZ2721	SHIELD SHEET	1					-	
41	VSC4755	SHIELD PLATE	1					-	
42	VSC4756	SHIELD PLATE (B3)	1		l -			_	
43	VSC4757		+						
		SHIELD PLATE (B4)	1		ļ				
44	VSC4691	SHIELD PLATE	1						
45	VXA6179	TOP ANGLE ASS'Y	1		L				
50	VEEOC24	WIRE CABLE (14P)	1	P2705-P2502		-			
51	VEEOC26	WIRE CABLE (8P)	1	P3701-P7651					
52	VEEOC25	WIRE CABLE (4P)		P3781-P6601				-	
53	VMC1374	REDUCTION SPRING	+:	1 0 7 0 1 0 0 0 1	ļ				
54			1.						
	VXU1 478	DOOR BUTTON ASS' Y	1						
57	VSQ0687	FERRITE CORE	1		<u> </u>				
58	VMTO442	SPONGE MAT	1					_	
59	VJR3	WIRE CLAMPER	2						
60	VEJ1 857	ANT TERMINAL	1		 				
		I EINIII IVAL	+		 				
	<u> </u>				<u> </u>				L
			1		 [
	L		L						
B1	XQN26+AG6FZ	SCREW	7						
B2	XTN26+6GFZ	SCREW	4						
	XTN26+8GR	SCREW	8						
B4									
		SCREW	4						
B5		SCREW	1						
B6	XTW3+12TR	SCREW	4						
B7	XSN2+6FX	SCREW	1						
В9	XTV3+86	SCREW	6						
B10	XTV3+10GR	SCREW	8		 				
310									
	XTV3+6GFZ	SCREW	4		 				
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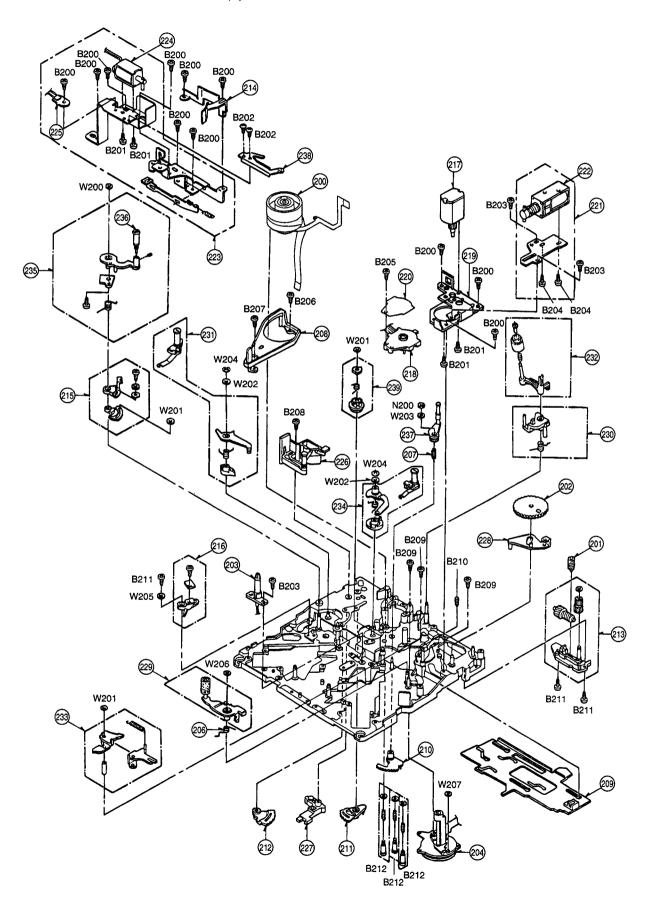
Remarks

2 CHASSIS PARTS SECTION (1)



	sure to make your DRTANT SAFETY	orders of replacement parts according NOTICE	to this	ist.	Ref. No.	Part No.	Part Name & Descripti	orPc:	Remarks
Comp any c	ponents identified of these compone	I with the mark Δ have the special charts, use only the same type.	aracteris	stics for safety. When reptacing	B100	VHD0995	SCREW	8	
	<u> </u>	, , , , , , , , , , , , , , , , , , , ,			B101	XQN2+CF3	SCREW	1 2	
	T	T			B102	XSB26+4FX	SCREW	3	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks					
100	VEM0638	S-REEL MOTOR (1) ASS'Y	+			ļ		\perp	
101	VEM0639	T-REEL MOTOR (1) ASS'Y	1		W100	VMX1079	CUT WASHER	1 2	
102	VMS6462	OUTER SHAFT	2		W101	VMX1394	CUT WASHER	1 2	
103	VMS5924	REEL INNER RAIL	2					+-	
104	VXA6005	SLIDE ROD (1) ASS'Y	1					+-	
05	VXA6006	REEL RELEASE ANGLE1 ASS'Y	1				<u> </u>	+	
106	VXL2589	S BASE DRIVE ARM ASS'Y	1				<u> </u>	+-	
107	VXL2590	T BASE DRIVE ARM ASS'Y	1					+-	
								+-	
								-	

3 CHASSIS PARTS SECTION (2)



Note: 1. *Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

any o	f these componen	ts, use only the same type.		onside for selecty. When replacing				
					' 			
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	1├──		-	
							-	
200	VEG1440	CYLINDER UNIT	1				 Г	
201	VDG1166	MOTOR WARM GEAR	_1					
202	VDG1168	MAIN CAM GEAR	1		 			
203	VEK8323 VEM0840	LED HOLDER (1) ASS'Y CAPSTAN (1) ASS'Y	<u> </u>				 _	
206	VMB2933	PINCH RELEASE SPRING	1				<u> </u>	
207	VMB2950	T4 THRUST SPRING	1		l		_	
208	VMD2533	LOADING RAIL	<u> </u>					
209	VXA5563	MAIN ROD ASS'Y	1				-	
210	VXA5564	T4 SECTOR GEAR ASS'Y	1					
211	VXA5567	S SECTOR GEAR ASS'Y	1					
212	VXA5570	T SECTOR GEAR ASS'Y	1					
213	VXA5827 VMD3475	THRUST SHAFT HOLDER ASS'Y	1				_	
215	VXA5791	T1 GUIDE U. TENSION LEG SPRING HOOK	1		l 		<u> </u>	
216	VXA5820	TENSION SENSOR ASS'Y	1				 -	
217	VEM0645	LOADING MOTOR (1) A ASS'Y	1				 ┝	
218	VES0814	MODE SW ASS'Y	1				├-	
219	VMA9799	MOTOR ANGLE	1				┢	
220	VMZ2737	MODE SW COVER	1					
221	VXA6009	PINCH SOLENOID BASE (1)	1					
222	VSJ0217	PINCH SOLENOID	_1					
223 224	VXA6010 VSJ0222	CLEANER BASE (1) ASS'Y CLEANING SOLENOID	1				 	
225	VEK7927	INSULLATION SENSOR	1					
226	VXA6052	S POST BASE A ASS' Y	÷		<u> </u>		-	
227	VXL2838	TEN REG. TURN ARM ASS'Y	1				-	
228	VXL2889	MAIN CAM ARM ASS'Y	1					
229	VXL2835	PINCH ARM (1) ASS'Y	_					
230	VXL2870	T2 ARM ASS'Y	_1					
231 232	VXL2709 VXL2924	S1 LOADING ARM ASS'Y CLEANING ARM A ASS'Y	-1				 _	
233	VXL2924 VXL2776	PINCH TURN ARM (1) ASS'Y	1					
234	VXL2898	T LOADING ARM ASS'Y	1				 	
235	VXL2831	TENSION ARM S (1) ASS'Y	1				 _	
236	VXP1761	TENSION ROLLER	1					
237	VXL2806	T4 ARM (1) ASS'Y	1				_	
238	VMA9753	STOPPER	_1					
239	VXP1683	T4 CONNECTION GEAR ASS'Y	1					
			-				 <u>_</u>	
			-		-			
B200	XQN2+CF3	SCREW	11		 		 	
B201	XQN2+A2	SCREW	4				 	
B202	XON14+CF3	SCREW	2				 	
B203	XQN2+AM2	SCREW	3					
		SCREW	2					
B205 B206	XQN2+CF6 XQN2+AM4	SCREW SCREW	1				 	
B207	XQN2+A3	SCREW	1					
B208	XQN2+CF5	SCREW	1					
B209	XQN2+A35FZ	SCREW	3					
B210	VHD0356	SCREW	1					
B2 11	XQN2+CF4	SCREW	3					
B2 12	VXQ0439	SCREW	3					
			4					
			-					
W200	VMX0967	CUT WASHER	1				 	
W201	VMX1081	WASHER	3	··			 	
W202	XWGV15Z32G	WASHER	2				 _	
W203	XWE16VW	WASHER	1					
W204	XUC12FP	E-RING	2				 	
W20 5	XWE2	WASHER	1				 	
W206	VMX1079	CUT WASHER	1					
₩207	XWA2B	WASHER	1					
			-					
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N200	VHN0312	NUT	7			_	 -	
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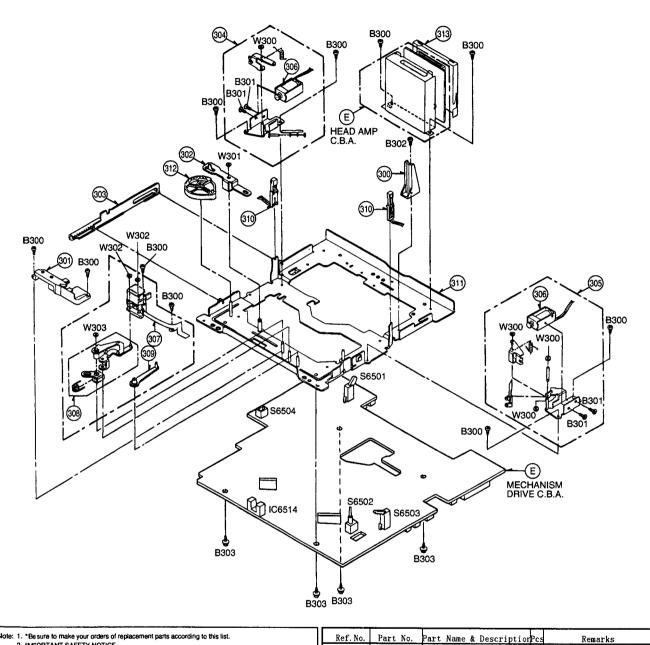
Ref. No.

Part No.

Part Name & DescriptionPcs

Remarks

4 SUB CHASSIS PARTS SECTION



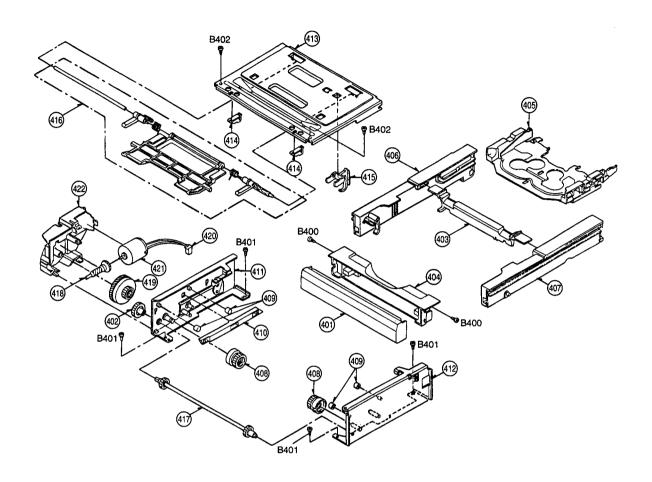
Note: 1.	. *Be sure to make your orders of replacement parts according to this list.
2.	. IMPORTANT SAFETY NOTICE
	Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

		Part Name & Description	Pcs	Remarks
300	VMD3019	TRAY STOPPER A	[1]	
301	VMD2853	MIC STOPPER	1	
302	VML3292	COMMUNICATION ARM	1	
303	VML3293	TRAY CONNECTION ROD	1	
304	VXA5575	S-BRAKE SOLENOID BASE	1	
305	VXA5887	T-BRAKE SOLENOID BASE	1	
306	VSJ0216	BRAKE SOLENOID	2	
307	VXA6012	MIC CONNECTOR (1) ASS'Y	1	
308	VXL2777	MIC DRIVE ARM (1) ASS'Y	1	

309	VXL2780	MIC SUBLINK ARM (1) ASS'Y	1	
310	VEK8225	PHOTO SENSOR HOLDER (1)	2	
311	VXK1352	SUB CHASSIS (2) ASS'Y	1	
312	VXP1842	LOCK GEAR (1) ASS' Y	1	
313	VSC4699	SHIELD CASE B	1	
B300	XQN2+CF3	SCREW	10	
B301	XQN2+A1.5	SCREW	4	
B302	XQN2+CF4	SCREW	1	
B303	XYN26+J5	SCREW	4	
W300	VMX0967	CUT WASHER	4	
W301	VMX0653	CUT WASHER	1	
W302	VMX1548	CUT WASHER	2	
W303	VMX1079	CUT WASHER	1	
		<u> </u>		

Remarks

6 CASSETTE TRAY PARTS SECTION



Note: 1. 'Be sure to make your orders of replacement parts according to this list.

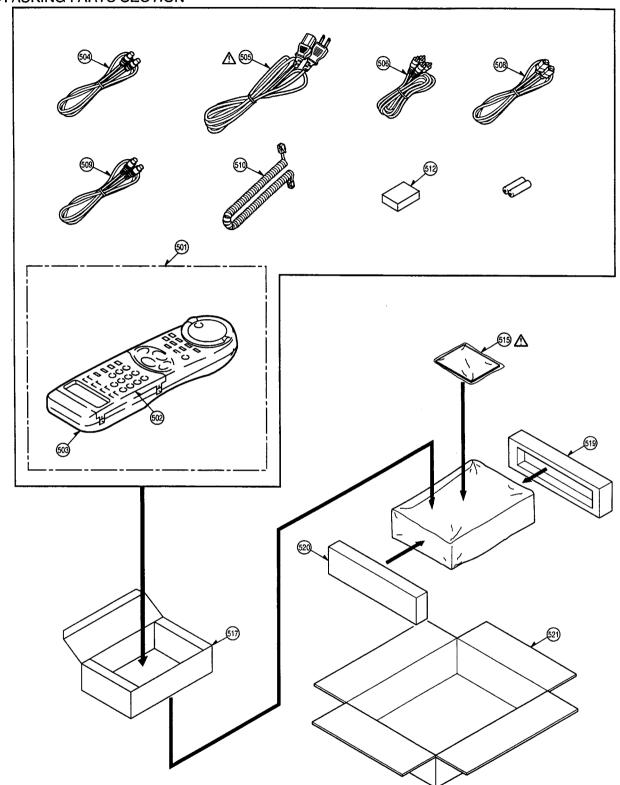
2. IMPORTANT SAFETY NOTICE

Components identified with the mark have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Descripti	orPcs	Remarks
401	VGP4573	TRAY FRONT PANEL		
402	VDG1283	SYNCHRO. DRIVE GEAR	1	
403	VMD2845	REAR GUIDE	1	
404	VMD2846	FRONT GUIDE	1	
405	VXA5990	CASSETTE HOLDER ASS'Y	1	
406	VXA5991	S RACK ASS' Y	1	
407	VXA5992	T RACK ASS' Y	1	
408	VDG1260	PINION GEAR	2	
409	VDP1687	ROLLER	4	
	1			

Ref. No.	Part No.	Part Name & Description	orPcs	Remarks
410	VMD2847	FRONT PROJECTION	1	
411	VXA6023	SIDE PLATE (S)	1	
412	VXA6024	SIDE PLATE (T)	1	
413	VMA9797	CASSETTE COVER	1	
414	VMD2849	TOP GUIDE	2	
415	VML3395	COVER OPEN LEVER	1	
416	VXA5999	BOOSTER (1) ASS' Y	1	
417	VXA6000	TRAY DRIVE SHAFT ASS'Y	1	
418	VDG1264	WORM GEAR	1	
419	VDG1265	WORM FOIL GEAR	1	
420	VEE0B83	MOTOR WIRE CABLE	11	
421	VEM0644	TRAY MOTOR	1	
422	VMD2850	GEAR BOX	1	
8400	XTB26+8JFZ	SCREW	2	
B401	XSN2+3R	SCREW	4	
B402	XTB2+35FFY	SCREW	2	
L				

6 PACKING PARTS SECTION



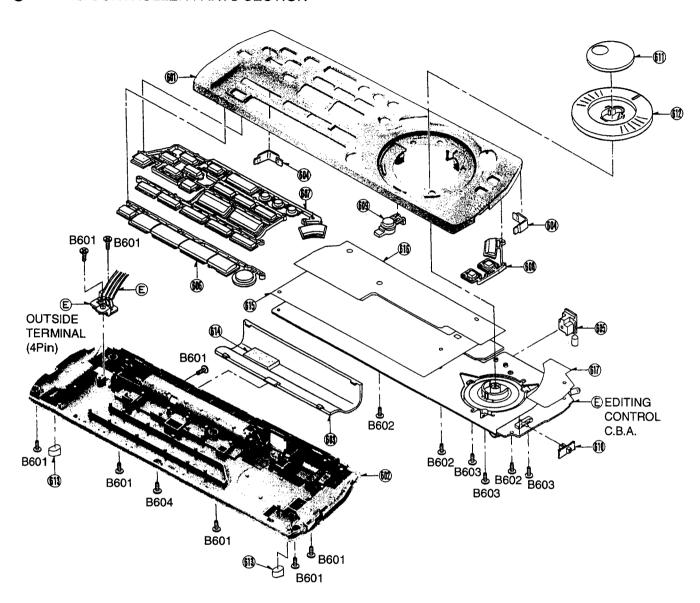
Note: 1. "Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE

Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	orPcs	Remarks
	l.			
501	EUR571603	REMOTE CONTROLLER	1	
504	VJA0658	S-VHS CABLE	1	
1 505	VJA0488	POWER CODE	1	
506	VJA0788	AV OUTPUT CABLE	1	
			\top	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
.508	VJA1011	DV CABLE	1	
509	VJA0787	EDIT 5P CABLE	1	
510	VJA1045	CONTROLLER CABLE	1	
512	VFK1451	VIDEO HEAD CLEANING TAPE	1	
<u>^</u> 515	VQT7774	OPERATING INSTRUCTION	1	(ENGL I SH)
<u> </u>	VQT7775	OPERATING INSTRUCTION	1	(FRENCH)
517	VPK2111	ACCESSORIES PACKING	1	
519	VPN4748	CUSHION (R)	1	
520	VPN4749	CUSHION (L)	1	
521	VPG9182	PACKING	1	

FÉDITING CONTROLLER PARTS SECTION



 'Be sure to make your orders of replacement parts according to this list. IMPORTANT SAFETY NOTICE Components identified with the mark

Ref. No.	Part No.	Part Name & Descr	iptionPcs	Remarks
601	UR57CS612D	UPPER CASE	1	
602	UR57CS613B	LOWER CASE	1	
603	UR57EC614B	BATTERY DOOR	1	
604	UR57EC615A	SMOKE PLATE	2	
605	UR57FT616B	CAP	1	
606	UR57BT617C	BUTTON A	1	
607	UR57BT618C	BUTTON B	1	
808	UR57BT619C	BUTTON C	1	
609	UR57BT620AA	BUTTON D	1	
610	UR57TM621B	SW KNOB	1	

ŀ	Ref. No.	Part No.	Part Name & Descriptio	rPcs	Remarks
L					
L	611	U19TM2069	KNOB A	1	
L	612	U19TM2070	KNOB B	1	
	613	UR57GL625AA	FOOT	2	
П	614	UR57DP641	DUMPER	1	
	615	UR57ST622A	STATIC PROOF SHEET	1	
l	616	UR57ST623B	STATIC PROOF SHEET	1	
L	617	UR57ST624A	STATIC PROOF SHEET	1	
L					
Ļ					
L					
L					
L					
L	B601	XTB2+6GFZ	SCREW	8	
L	B602	XTB2+5GFZ	SCREW	3	
	B603	XTB26+5GFZ	SCREW	3	
	B604	XTB2+4GFZ	SCREW	1	
L				Τ	
					<u></u>

- Note: 1. Be sure to make your orders of replacement parts according to this list.

 2. IMPORTANT SAFETY NOTICE: Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

 3. Unless otherwise specified,

 All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.

 4. The P.C. Board units marked width "■" show below the main assembled parts.

 5. The marking (RTL) indicaters the retention time is limited for this item.

5. The r	narking (RTL) ind	icaters the retention time is limited for	this	item.	<u> </u>	 		1	
		on of this assembly in production, it wi			C2001		T. CAPACITOR CH6. 3V 22	1	1
					C2002-04	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.11	ı۱	3
		r	Ψ.		C2005, 06	ECUX1H120JCV	C. CAPACITOR CH 50V 12I	•	2
Ref. No.	Part No.	Part Name & Description	Pc:	Remarks	C2007-09	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 11	ī	3
			Г		C2010	ECSTOJD107Z	T. CAPACITOR CH6. 3V 100	,	1
	VEP06C02C	MAIN C. B. A.	1	(RTL)	C2011-13		C. CAPACITOR CH 16V 0. 11		3
				THE FOLLOWING C. B. A. S			C. CAPACITOR CH 50V 0. 011	-	2
			1-	ARE INCLUDED IN	C2016	 	C. CAPACITOR CH 16V 1	+-	1
			\vdash	MAIN C. B. A.	C2018				
			-	VEPO3D99A	C2019		·	-	1
			┢				T. CAPACITOR CH6. 3V 10L	-	1
h			⊢	VEP03E28A	C2020		C. CAPACITOR CH 16V 1	-	1
			-	VEP03E29A	C2021	 	T. CAPACITOR CH6. 3V 10L	-	11
l			<u> </u>	VEP03D988	C2022		C. CAPACITOR CH 50V 1000F		1
ļ			ļ	VEP04869B	C2023		T. CAPACITOR CH6. 3V 10L		1
			ļ	VEP06C89A	C2024		C. CAPACITOR CH 50V 0. 018	圵	1
			L.	VEP07973B	C2025		C. CAPACITOR CH 16V 0.15	-	1
<u> </u>			L	VEP07801AR	C2026		T. CAPACITOR CH6. 3V 10L	<u> </u>	1
	VEP03D99A	ANALOG C. B. A.	1	(RTL)			C. CAPACITOR CH 16V 0.1L	1	4
				INCLUDED IN	C2042~45		C. CAPACITOR CH 16V 0.1L	ı	4
				MAIN C.B.A. (VEP06C02C)	C2501		C. CAPACITOR CH 50V 0.1L	ı	1
	VEP03E28A	INPUT/OUTPUT C.B.A.	1	(RTL)	C2502, 03	ECEA1CKA101	E. CAPACITOR 16V 100L	ī	2
				INCLUDED IN	C2505, 06	ECEA1CKA101	E. CAPACITOR 16V 100L	ī	2
			L	MAIN C. B. A. (VEP06C02C)	C2507, 08	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1L	T	2
			Ĺ	INCLUDING THE	C2509	ECEA1CKA101	E. CAPACITOR 16V 100L	ıΤ	1
<u></u> I			L	REAR JACK C. B. A.	C2510	ECUX1H682KBN	C. CAPACITOR CH 50V 6800F	1	1
<u>L</u>				(VEP03E29A)	C2511	ECEA1CKA101	E. CAPACITOR 16V 100L	丁	1
	VEP03E29A	REAR JACK C. B. A.	1	(RTL)	C2512, 13	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1L	+	2
				INCLUDED IN	C2514	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01L	1	1
				INPUT/OUTPUT C. B. A.	C2515		C. CAPACITOR CH 50V 1000F	-	1
				(VEP03E28A)	C2519, 20		C. CAPACITOR CH 50V 0. 1L	1	2
	VEP03D98B	DIGITAL C. B. A.	1	(RTL)	C2521	ECEA1CKA101		-	1
L				INCLUDED IN	C2522		C. CAPACITOR CH 50V 0.1L	+-	1
				MAIN C. B. A. (VEPO6CO2C)			C. CAPACITOR CH 50V 0. 01L	+-	2
	VEP04869B	AUDIO C. B. A.	1	(RTL)	C2525		C. CAPACITOR CH 50V 6800F	-	1
			H	INCLUDED IN	C2526	ECEATCKA101		-	1
			-	MAIN C. B. A. (VEP06C02C)	C2527		C. CAPACITOR CH 50V 0.1L	+-	1
	VEP06C89A	MOTOR DRIVE C. B. A.	١,	(RTL)			C. CAPACITOR CH 50V 6800P	+-	2
			H	INCLUDED IN	C3001			+	
			-	MAIN C. B. A. (VEP06C02C)	C3002			+	1
	VEP07973B	NICAM DECODER PACK C. B. A.		(RTL)	C3003			+	1
-	121 070 700	NIOAM DECODER FACE C. B. A.		INCLUDED IN				+	1
·					C3004, 03		C. CAPACITOR CH 16V 1U	-	2
	VEP07801AR	TV DEMODULATOR PACK C. B. A.	1	MAIN C. B. A. (VEP06C02C) (RTL)	C3007		C. CAPACITOR CH 50V 0.01U	+	-
	TE/ OTOOTAK	TO DEMODDER TOR PROR O. B. A.		INCLUDED IN	C3008			+	1
			-	MAIN C. B. A. (VEP06C02C)			C. CAPACITOR CH6. 3V 2. 2U	+	1
				MATN C. B. A. (VEPU8CU2C)	C3010-12		C. CAPACITOR CH 16V 0.1U	+	3
	VEP05351A	HEAD AMP C.B.A.	-	(RTL)	C3013		C. CAPACITOR CH 50V 0.01U	+-	1
h	121 000017	TILLO AMI O. B. A.	-	(KIL)			T. CAPACITOR CH6. 3V 10U	+	<u> </u>
	VEP02557A	MECHANISM DRIVE C.B.A.	-	(pri)	C3015		T. CAPACITOR CH 16V 3.3U	-	1
	VEF-02337A	MECHANISM DRIVE C.B. A.	_'	(RTL)	C3016		C. CAPACITOR CH 50V 0. 01U	+-	1
	VEP07A05A	TINCO O D A		(2-1)	C3017		T. CAPACITOR CH6. 3V 10U		1
	VEP U / AUSA	TIMER C. B. A.		(RTL)			C. CAPACITOR CH 50V 0. 01U	1	1
	VEDODEOLI	EDAUT (I)					T. CAPACITOR CH6. 3V 10U	L	1
	VEP03E91A	FRONT (L) C. B. A.	_1	(RTL)				1	I
<u>-</u>	VEDO4700:	FRONT (D) C D		/a-: }			T. CAPACITOR CH 16V 0.68U	1	l
	VEP04728A	FRONT (R) C. B. A.	1	(RTL)	C3023		C. CAPACITOR CH 50V 680P	1	
					C3024		C. CAPACITOR CH 50V 1500P	1	1
	VEP07966A	MODULAR C. B. A.	1	(RTL)	C3025		C. CAPACITOR CH 50V 27P	1	
					C3026	ECUX1H22OJCV	C. CAPACITOR CH 50V 22P	1	1
	VEP07965A	FRONT LED C. B. A.	_1	(RTL)	C3027	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1	
					C3028-30	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	3	3
-	VEP07968A	IR C. B. A.	-1	(RTL)	03031	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1	
					C3032	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1	
	VEP03E18A	5P JACK C. B. A.	1	(RTL)	C3033	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1	
			\Box				C. CAPACITOR CH 16V 0. 027U		
	VEP07967A	DV JACK C. B. A.	_1	(RTL)			C. CAPACITOR CH 50V 0. 01U		
							C. CAPACITOR CH 50V 10P	-	
	VEP01839A	POWER C. B. A.	1	(RTL)			C. CAPACITOR CH 16V 1U	+	
T							C. CAPACITOR CH 50V 100P	+	
	JR57VPB623	EDITING CONTROL C. B. A.	_1	(RTL)			C. CAPACITOR CH 16V 1U	-	
							C. CAPACITOR CH 50V 0.01U		
							C. CAPACITOR CH 18V 0.1U	+	
			\neg					+-	
								\vdash	
			_					•	1

Ref. No. Part No.

VEP06C02C

Part Name & DescriptionPcs

MAIN C. B. A.

Remarks

1 (RTL)

				,				
Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
C3055-59	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 5		C3264		C. CAPACITOR CH 50V 22P	_	
C3062-65	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U 4		C3265		C. CAPACITOR CH 16V 0.1U	+	
C3066	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U 1		C3267		C. CAPACITOR CH 50V 0.01U	+-	
C3067	 	T. CAPACITOR CH6. 3V 22U 1		C3280		T. CAPACITOR CH6. 3V 100U	+	
C3068-72		C. CAPACITOR CH 16V 0.1U 5		C3301		C. CAPACITOR CH 16V 0. 1U	1	
		C. CAPACITOR CH 50V 0.01U 5		C3302			+-	
	 	C. CAPACITOR CH 50V 7P 2		C3302			1	·
C3080		C. CAPACITOR CH 50V 0.01U 1				C. CAPACITOR CH 50V 100P	1	
C3081				C3304		C. CAPACITOR CH 50V 100P	1	
		C. CAPACITOR CH 16V 0.1U 1		C3305		C. CAPACITOR CH 25V 1000P	1	
C3082	·	C. CAPACITOR CH 50V 100P 1		C3306		C. CAPACITOR CH 50V 100P	1	
C3083		C. CAPACITOR CH 16V 0.47U 1		C3307	ECUX1H101JCQ	C. CAPACITOR CH 50V 100P	1	
C3084		C. CAPACITOR CH 16V 0. 22U 1		C3308~10	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	3	
C3085	ECUX1H473ZFV	C. CAPACITOR CH 50V 0. 047U 1		C3311	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
C3086, 87	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 2		C3312	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3090, 91	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U 2		C3313-16	ECUX 1H1 02KBV	C. CAPACITOR CH 50V 1000P	4	
C3092	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P 1		C3317		C. CAPACITOR CH 50V 100P	1	
C3093-96	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U 4		C3318		C. CAPACITOR CH 50V 1000P	1	
		C. CAPACITOR CH 16V 0.1U 2		C3319			+	
		C. CAPACITOR CH 50V 0.01U 2				C. CAPACITOR CH 50V 47P	1	
				C3320		C. CAPACITOR CH 50V 100P	1	
				C3321		C. CAPACITOR CH 50V 47P	1	
C3103		C. CAPACITOR CH 50V 0.01U 1				C. CAPACITOR CH 50V 100P	3	
		C. CAPACITOR CH 16V 0.1U 2		C3325	ECUX1H101JCQ	C. CAPACITOR CH 50V 100P	1	
C3108		C. CAPACITOR CH 16V 0. 22U 1		C3326	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C3111	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 1		C3327	ECUX1H101JC0	C. CAPACITOR CH 50V 100P	1	
C3116		T. CAPACITOR CH6. 3V 10U 1		C3328	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1	
C3117	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 1		C3329. 30		C. CAPACITOR CH 50V 100P	2	
C3151	ECUX1A105KBN	C. CAPACITOR CH 10V 1U 1		C3331		C. CAPACITOR CH 50V 1000P	1	
		C. CAPACITOR CH 50V 15P 2				C. CAPACITOR CH 50V 1000P	2	
C3154		C. CAPACITOR CH 10V 1U 1					+	
		C. CAPACITOR CH 50V 18P 2		C3335			1	
C3157						C. CAPACITOR CH 50V 100P	11	
				C3336		C. CAPACITOR CH 50V 1000P	1	
C3158		C. CAPACITOR CH 10V 1U 1		C3337		C. CAPACITOR CH 50V 100P	1	
		C. CAPACITOR CH 50V 0.01U 2		C3338	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	,
		C. CAPACITOR CH 16V 0.1U 2		C3339	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.1U	1	
C3205	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U 1		C3340	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
C3206	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 1		C3341, 42	ECUX1C104ZFQ	C. CAPACITOR CH 16V 0.1U	2	
C3207	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U 1		C3343	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1	
C3208	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U 1		C3344	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3209-11	ECUX 1 H1 03KBV	C. CAPACITOR CH 50V 0.01U 3		C3345		C. CAPACITOR CH 25V 1000P	1	
C3212, 13	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U 2		C3346		C. CAPACITOR CH 50V 1000P	1	
C3214	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U 1		C3347		C. CAPACITOR CH 25V 1000P	H	
C3215		T. CAPACITOR CH6. 3V 10U 1		C3348		C. CAPACITOR CH 50V 1000P	1	
C3216-18	· · · · · · · · · · · · · · · · · · ·	C. CAPACITOR CH 50V 0.01U 3		C3349			1	
C3219		C. CAPACITOR CH 16V 0. 027U 1					<u> </u>	
		C. CAPACITOR CH 50V 0.01U 3					1	
C3223	·			C3351		C. CAPACITOR CH 50V 100P	1	
C3224				C3352		C. CAPACITOR CH 50V 1000P	1	
		T. CAPACITOR CH6. 3V 10U 1		C3353		C. CAPACITOR CH 25V 1000P	1	
		C. CAPACITOR CH 50V 0.01U 3				C. CAPACITOR CH 50V 100P	3	
C3228	ECUX1C104KBV	C. CAPACITOR CH 18V 0.1U 1		C3357-59	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	3	
C3229		C. CAPACITOR CH 50V 330P 1		C3360, 61	ECUX1H101JCQ	C. CAPACITOR CH 50V 100P	2	
C3230		C. CAPACITOR CH 50V 0.01U 1		03362	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3231		C. CAPACITOR CH 50V 1500P 1				C. CAPACITOR CH 50V 100P	1	
C3232	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 1				C. CAPACITOR CH 50V 100P	1	
C3233, 34	ECUX1H103KBV	C. CAPACITOR CH 50V .0.01U 2				C. CAPACITOR CH 50V 100P	1	
C3235		C. CAPACITOR CH 50V 680P 1				C. CAPACITOR CH 18V 0.1U	1	
C3236-38		C. CAPACITOR CH 50V 0. 01U 3				C. CAPACITOR CH 16V 0.1U	1	
C3239		T. CAPACITOR CH6. 3V 10U 1				C. CAPACITOR CH 16V 0.1U	-	
C3240		C. CAPACITOR CH 50V 0. 01U 1					3	
		C. CAPACITOR CH 16V 0.1U 2					2	
C3243		C. CAPACITOR CH 50V 0.01U 1				C. CAPACITOR CH 25V 1000P	1	
C3244						C. CAPACITOR CH 16V 0.1U	5	
				C3379		C. CAPACITOR CH 50V 1000P	1	
C3245		T. CAPACITOR CH8. 3V 10U 1		C3401		C. CAPACITOR CH 50V 0.01U	1	
C3246		C. CAPACITOR CH 50V 0.01U 1				E. CAPACITOR 16V 10U	2	
C3247		T. CAPACITOR CH6. 3V 10U 1		C3406	EEVHBOJ101	E. CAPACITOR 6.3V 100U	1	
		C. CAPACITOR CH 50V 0.01U 2		C3408	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C3250		C. CAPACITOR CH8, 3V 2, 2U 1		C3412	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1	
C3251-53	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 3			EEVHB1C100		2	
C3254	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U 1				C. CAPACITOR CH 50V 0. 01U	1	
C3255, 56	ECUX 1H1 03KBV	C. CAPACITOR CH 50V 0.01U 2				E. CAPACITOR 6.3V 100U	+	
C3257		T. CAPACITOR CH8. 3V 47U 1						
C3258		C. CAPACITOR CH 16V 0.1U 1				C. CAPACITOR CH 50V 0. 01U	1	
C3259		C. CAPACITOR CH 16V 0.10 1		C3438		C. CAPACITOR CH 50V 0.01U	1	
C3259						E. CAPACITOR 16V 10U	1	
		C. CAPACITOR CH 16V 0. 1U 1				E. CAPACITOR 6.3V 100U	1	
C3261		C. CAPACITOR CH 50V 0.01U 1				C. CAPACITOR CH 50V 0.01U	1	
C3262	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U 1		C3503, 04	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	r D.	Pomantes
C3505-07		C. CAPACITOR CH 16V 0.1U	3	NOBGI NO	03713			_	
C3511			1					+	
			<u> </u>		C3714		C. CAPACITOR CH 50V 270F	1	1
C3512		C. CAPACITOR CH 16V 0.1U	_1				C. CAPACITOR CH 16V 0.1L	١.	4
C3513	+	C. CAPACITOR CH 50V 470P	1		C3719-21	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10L	П	3
C3514	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U	1		C3722-25	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1L		4
C3515	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1		03727		C. CAPACITOR CH 16V . O. 1L	+-	1
C3516		C. CAPACITOR CH 50V 15P	1		C3802			+	
C3517			<u> </u>				C. CAPACITOR CH 50V 560F	+-	·
			_1		C3803	EEVHB1C100	E. CAPACITOR 16V 10L	1	1
C3518		C. CAPACITOR CH 16V 0.1U	_1		C3804	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01L	1	1
C3519	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1		C3806	EEVHB1H3R3	E. CAPACITOR CH 50V 3.3L	1	1
C3520	EEVHB0J470	E. CAPACITOR 6. 3V 47U	1		C3807	EEVHBOJ101	E. CAPACITOR 6.3V 100L	+-	1
C3521	EEVHBOJ101	E. CAPACITOR 6.3V 100U	1	· · · · · · · · · · · · · · · · · · ·	C3808	·	C. CAPACITOR CH 50V 3900F	+	
C3522	EEVHB1H1R0	E. CAPACITOR 50V 1U	1					+	1
		 	_		C3809	EEVHB1H1R0	E. CAPACITOR 50V 1L	+-	1
C3523	EEVHB1E4R7	E. CAPACITOR 25V 4. 7U	1		C3810	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U		1
C3524	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1		C3811	ECUM1 HOSODON	C. CAPACITOR CH 50V 9F	T	1
C3525	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C3812	ECUX1H561JCN	C. CAPACITOR CH 50V 580P	Τ.	
C3526	ECUN1H331JCN	C. CAPACITOR CH 50V 330P	1		C3814		C. CAPACITOR CH 50V 27P	+	
C3527	EEVHB1H3R3	E. CAPACITOR CH 50V 3.3U	1	· · · · · · · · · · · · · · · · · · ·	C3815	· · · · · · · · · · · · · · · · · · ·		+	
C3528			_				E. CAPACITOR 6.3V 100L	-	i
		C. CAPACITOR CH 25V 0. 015U	1		C3816	ECUX 1H103ZFV	C. CAPACITOR CH 50V 0.01U	Ľ	1
		C. CAPACITOR CH 50V 1000P	2		C3818	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U	Γ	
C3531	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		C3819	EEVHBOJ101	E. CAPACITOR 6. 3V 100U	+	1
C3535	EEVHBOJ101	E. CAPACITOR 6. 3V 100U	1		C3820		C. CAPACITOR CH 50V 22P	+	
C3601	 	C. CAPACITOR CH 50V 0. 01U	1		C3822			+	
C3602	VCEAOJBS101	E. CAPACITOR 8. 3V 100U	-				E. CAPACITOR 6. 3V 100U	-	
			-		C3823		C. CAPACITOR CH 50V 33P	+-	1
C3603	 	C. CAPACITOR CH 50V 0. 01U	_1		C3901		C. CAPACITOR CH 50V 0, 1U	L	J
C3604	ECEAOJKA101	E. CAPACITOR 6. 3V 100U	1		C3902	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U		
C3606	VCEA0JBS101	E. CAPACITOR 6. 3V 100U	1		C3903	ECEAOJKA220		-	
C360B	VCEA0JBS101	E. CAPACITOR 8, 3V 100U	1	*****	C3905-07			-	
C3610	ECEA1CKA100	E. CAPACITOR 16V 10U	i					-	7
C3617	 				C3908		E. CAPACITOR 6.3V 22U	+	
	ECEAOJKA101	E. CAPACITOR 6.3V 100U	1		C3911-14	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U] 4	J.
C3618		C. CAPACITOR CH 50V 0. 01U	1		C3915	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	T	
C3621, 22	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. D1U	2		C3918	ECEAOJKA220	E. CAPACITOR 6.3V 22U	١,	
C3623	ECEA1EKA4R7	E. CAPACITOR 25V 4. 7U	1		C3920	ECEAOJKA220		+	
C3624	ECAOJM221	E. CAPACITOR 6.3V 220U	1		C3921			+	· · · · · · · · · · · · · · · · · · ·
C3625						ECEA1CKA470		-	·
			_1			ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	!
C3626		E. CAPACITOR 16V 10U	_1		C4006	ECEA1CU101	E. CAPACITOR 16V 100U	1	1
C3627	ECAOJM331	E. CAPACITOR 6. 3V 330U	. 1		C4007	VCEA1CAS220	E. CAPACITOR 16V 22U	1	
C3628	ECEA1CKA100	E. CAPACITOR 16V 10U	1		C4008	ECUX1H223KBN	C. CAPACITOR CH 50V 0. 22U	+	
C3629	ECAOJM331	E. CAPACITOR 6.3V 330U	1		C4009	VCEA1CAS220		-	
C3630		C. CAPACITOR CH 50V 0. 01U	1		C4010, 11			+-	
C3631	VCEA1CBS100	E. CAPACITOR 16V 10U	$\overline{}$			VCEA1CAS102		+	
C3632	 		-1		C4012		E. CAPACITOR 16V 22U	-	
	VCEA0JBS470	E. CAPACITOR 8. 3V 47U	-1		C4013, 14	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	<u> </u>
C3633		C. CAPACITOR CH 50V 0. 01U	_4		C4015	ECEA1CKA100	E. CAPACITOR 16V 10U	1	1
C3634	VCEA0JBS470	E. CAPACITOR 6. 3V 47U	1		C4016, 17	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	7	4
C3635, 36	VCEA0JBS101	E. CAPACITOR 6.3V 100U	2		C4018, 19	ECHR1H223JZ	P. CAPACITOR 50V 0. 022U	2	,
C3637	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1			VCEA1CAE100		+	
C3638	VCEA0JBS101	E. CAPACITOR 6.3V 100U	-1		C4203			-	
C3639	VCEA1ABS470	E. CAPACITOR 10V 47U	1		·····		C. CAPACITOR CH 50V 33P	+	
			-4		C4206		C. CAPACITOR CH 50V 33P	!	
C3640	VCEA0JBS101	E. CAPACITOR 8. 3V 100U	_1		C4207	ECUX 1H152KBV	C. CAPACITOR CH 50V 1500P	1	
		C. CAPACITOR CH 50V 0. 01U	2		C4211	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3643, 44	VCEA0JBS470	E. CAPACITOR 6. 3V 47U	2		C4212	ECSTOJY106Z	T. CAPACITOR CHB. 3V 10U	+-	
C3645	ECUM1H1 03KBN	C. CAPACITOR CH 50V 0. 01U	1		C4213		C. CAPACITOR CH 16V 0.1U	+	
C3647	VCEA0JBS470	<u> </u>	1		C4214			+	
C3648	ECEA1EKA4R7		1					1	
C3650			_		C4215		C. CAPACITOR CH 50V 1500P	1	
			1				T. CAPACITOR CH6. 3V 10U	1	
C3651		C. CAPACITOR CH 50V 0. 01U	1	II	C4218	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	
C3652	ECEA1AKA470		1		C4219	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1	
C3653	ECEA1EKA4R7	E. CAPACITOR 25V 4. 7U	1		C4220 21		C. CAPACITOR CH 16V 0.1U	2	·
C3654		C. CAPACITOR CH 50V 1500P	1	I				-	
C3655		P. CAPACITOR 3900P	╗					2	
	 		\dashv				C. CAPACITOR CH 50V 1500P	2	
C3656		P. CAPACITOR 50V 1500P	_1		C4302	VCEA1AAE101	E. CAPACITOR 10V 100U	1	
C3657	ECEA1HKGR68		1		C4303	ECHR1H103JZ	P. CAPACITOR 50V 0. 01U	1	
C3658	ECEAOJKA330	E. CAPACITOR 6. 3V 33U	1		C4304	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C3659	ECUX1H561JCN		1		C4305	VCEA0JAE221		<u> </u>	
C3660	ECEAOJKA221		1		C4306			-	
C3661							C. CAPACITOR CH 50V 0. 1U	\vdash ¹	<u> </u>
			1		C4307	VCEA0JAE221		1	
C3662			1				C. CAPACITOR CH 50V 0.1U	L f	
C3663		C. CAPACITOR CH 50V 470P	1		C4309	ECUM1 H330JCN	C. CAPACITOR CH 50V 33P	1	
C3664	ECQV1H683JM	P. CAPACITOR 50V 0. 068U	1				C. CAPACITOR CH 16V 0.1U	1	
03701, 02	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	2					 	
C3703		C. CAPACITOR CH 50V 1000P	1						
			3	——————————————————————————————————————			C. CAPACITOR CH 50V 33P	1	
C3704-06 C3707			-			ECEA1CKA100		\perp 1	
			1				C. CAPACITOR CH 50V 33P	1	
			2		C4315	ECUX1C104ZFV	C. CAPACITOR CH 18V 0.1U	1	
C3710-12	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	3		C4316	VCEA1CAE100		1	
			\neg				100	Ė	<u> </u>
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Ref. No.	Part No.	Part Name & Description	Pos	Remarks	Ref. No.	Part No.	Part Name & Descri	n+ i a:	D.	Paraul.
C4317		E. CAPACITOR 16V 10U	1	Remarks					_	
C4318			-				C. CAPACITOR CH 16V	0. 1U	+	
		C. CAPACITOR CH 25V 0. 063U	1				C. CAPACITOR CH 50V	100P	3	
C4319	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C6033, 34	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	2	1
C4320	VCEA0JAE470	E. CAPAC! TOR 6. 3V 47U	1		C6035	ECUX1C104ZFV	C. CAPACITOR CH 16V	O. 1U	1	
C4321	ECHR1H103JZ	P. CAPACITOR 50V 0. 01U	1				C. CAPACITOR CH 16V	10	1	1
C4322	ECUM1E683KBN	C. CAPACITOR CH 25V O. 063U	1				C. CAPACITOR CH 50V	100P	H	
C4323	VCEA1CAE100	·	1						1	
C4324		· · · · · · · · · · · · · · · · · · ·					C. CAPACITOR CH 50V	100P	1	
		C. CAPACITOR CH 25V 0. 063U	_1				T. CAPACITOR CH6. 3V	220	1	
		E. CAPACITOR 50V - 2, 2U	2		C6045-47	ECUX1C104ZFV	C. CAPACITOR CH 16V	0. 1U	3	
C4327	VCEAOJAE470	E. CAPACITOR 6.3V 47U	1		C8201, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V	0. 01U	2	
C4328	ECHR1H103JZ	P. CAPACITOR 50V 0. 01U	1		C6203	ECEAOJKA330	E. CAPACITOR 6.3V	33U	1	
C4329, 30	VCEA1HAE2R2	E. CAPACITOR 50V 2. 2U	. 2		C6204			0.010	<u> </u>	
C4331		C. CAPACITOR CH 25V 0. 063U	1						 `	
	VCEA1CAE100		-			ECEAOJKA101		1000	1	
		 	2					2200P	_1	
C4334		C. CAPACITOR CH 50V 0. 1U	1		C6207	ECEAOJKA470	E. CAPACITOR 6.3V	47U	1	
C4335, 36	VCEA1HAE2R2	E. CAPACITOR 50V 2. 2U	2		C6208	ECUM1H104ZFN	C. CAPACITOR CH 50V	0. 1U	1	
C4337	ECEA1CKA100	E. CAPACITOR 16V 10U	1		C6401, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V	D. 01U	2	
C4338	ECEAOJKA101	E. CAPACITOR 6.3V 100U	1				E. CAPACITOR 16V	100	1	
C4339		C. CAPACITOR CH 50V 0, 1U	1							
							E. CAPACITOR 16V	47U	2	
		E. CAPACITOR 50V 2. 2U	2				E. CAPACITOR 16V	100	1	
	VCEA1CAE100		3		C6705	ECUM1H103KBN	C. CAPACITOR CH 50V (). O1U	1	
		C. CAPACITOR CH 50V 0. 1U	2		C6706	VCEA0JBS101	E. CAPACITOR 6.3V	1000	1	
C4347, 48	ECEA1CKA100	E. CAPACITOR 16V 10U	2			VCEA1CBS470		47U	1	
C4349		C. CAPACITOR CH 50V 0. 1U	1					D. 01U	1	· · · · · · · · · · · · · · · · · · ·
C4350		E. CAPACITOR 16V 10U	1						-	
C4351			_			VCEA0JBS470		470	1	
		C. CAPACITOR CH 50V 0.1U	1				E. CAPACITOR 6.3V	1000	1	
C4352		E. CAPACITOR 16V 100U	_1		C6711, 12	VCEA1CBS100	E. CAPACITOR 16V	100	2	
C4353	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		C6713	VCEA0JBS101	E. CAPACITOR 6.3V	1000	1	
C4354	ECEA1HKA010	E. CAPACITOR 50V 1U	1				C. CAPACITOR CH 50V	0. 10	1	
C4355		C. CAPACITOR CH 50V 0. 1U	1			VCEA0JBS101		1000	+	
C4356		C. CAPACITOR CH 16V 0. 1U	1						-	
C4357								0. 1U	1	
		C. CAPACITOR CH 50V 0.1U	_1			ECEATCKA100	E. CAPACITOR 16V	100	1	
C4358	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	_1		C6718-20	ECA1CM332	E. CAPACITOR 16V 3	33000	3	
C4359	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C6721, 22	ECUM1H104ZFN	C. CAPACITOR CH 50V	0. 1U	2	
C4360	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1		C6724	ECEAOJKA470	E. CAPACITOR 6.3V	47U	1	
C4361, 62	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	2			ECEA1AKA221Q		220U	1	
C4363	· · · · · · · · · · · · · · · · · · ·	C. CAPACITOR CH 16V 0. 1U	1						Н—	
C4384			_). 01U	_ 1	
		C. CAPACITOR CH 50V 0. 1U	_1			ECEAOJKA470	E. CAPACITOR 6. 3V	47U	1	
	ECEA1 CKA1 00	 	2		C6728	ECEAOJKA101	E. CAPACITOR 6.3V	1000	1	
C4367	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1		C6729	ECEA1HKA010	E. CAPACITOR 50V	10	1	
C4368	ECUM1 H1 04ZFN	C. CAPACITOR CH 50V 0. 1U	1		C6730	ECUM1H102KBN	C. CAPACITOR CH 50V 1	000P	1	
C4371	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1					0. 01U	1	
		C. CAPACITOR CH 50V 0. 1U	1						 '	
								0.010	4	
			2				C. CAPACITOR CH 50V C). O1U	2	
C4377	ECEA1CKA100	 	_1		C7901	ECA1CM471	E. CAPACITOR 16V	470U	1	
C4378		C. CAPACITOR CH 50V 33P	1		C7902	ECEAOJKA101	E. CAPACITOR 6.3V	1000	1	
C4379-81	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	3		C7905	ECEA1CKA470	E. CAPACITOR 16V	47U	1	
C4382	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C7913	ECUM1H103KBN). 01U	1	
C4384, 85	ECUX1C393KBV	C. CAPACITOR CH 16V 0, 039U	2			ECEA1CKA470			1	
								470	<u> </u>	
			_					680P	1	
		T. CAPACITOR CH8. 3V 10U). 01U	1	
C4508		C. CAPACITOR CH 16V 0. 1U			C7921	ECEA1CKA470	E. CAPACITOR 16V	47U	Lī	
C4515		C. CAPACITOR CH 16V 0. 1U	_1		C7922	ECUM1H103ZFN	C. CAPACITOR CH 50V C). O1U	1	
C4703	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1					100P	1	
C4704	ECUM1H104ZFN	C. CAPAC! TOR CH 50V 0. 1U	1			EEVHBOJ220		22U	1	
	ECEA1CKA100		2						<u>├</u>	
C4707		C. CAPACITOR CH 50V 0. 01U	1					0. 1U	1	
		 	_				C. CAPACITOR CH 50V C		1	ļ
C4708	ECEA1CKA100	t	1				C. CAPACITOR CH 50V	5P	1	
C4709		C. CAPACITOR CH 50V 0. 01U	1		C30006	ECUM1 HO9OCCN	C. CAPACITOR 50V	9P	1	
C6001	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22U	1				C. CAPACITOR CH 50V	33P	1	
C6O02	ECSTOJD107Z	T. CAPACITOR CH8. 3V 100U	1				C. CAPACITOR CH 50V	100P	1	
C6003		C. CAPACITOR CH 16V 0. 1U		—					⊢÷	
C6004		 	_					0. 1U	6	
			1					0. 1U	2	
C6005		C. CAPACITOR CH 16V 0.1U	_				C. CAPACITOR CH 50V 1	000P	1	
			2		C30018	EEVHB1H3R3	E. CAPACITOR CH 50V	3. 3U	1	
C6O08	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1					. 010	1	
C6009.10	ECUX 1H1 03KBV	C. CAPACITOR CH 50V 0. 01U	2						+	
		C. CAPACITOR CH 25V 0. 023U	2					0.10		
C6015			_	 				000P	1	
		C. CAPACITOR CH 50V 0. 01U						470P	1	
			2				E. CAPACITOR 16V	100	1	
			1		C30024, 25	ECUX1C104ZFV	C. CAPACITOR CH 16V	0. 1U	2	
C8O20	ECUX1C104ZFV	C. CAPACITOR CH 16V 0. 1U	1					0. 1U	_ <u>_</u>	
C8021		C. CAPACITOR CH 50V 12P	_				E. CAPACITOR 50V	10	1	
		·	4						-	
C6O26		· · · · · · · · · · · · · · · · · · ·	_				C. CAPACITOR CH 16V 0		_1	
- 50028	20310001072	T. CAPACITOR CH6. 3V 100U	1		C30029, 30	ECUX1C104ZFV	C. CAPACITOR CH 16V	0. 1U	2	
	ļ							_ 1		1.
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Ref. No.		Part Name & Description	_	Remarks Ref. No.			rPo	s Remarks
C30031		C. CAPACITOR CH 50V 0.01U	-	D3801	MA28W	DIODE	L	1
		E. CAPACITOR CH 50V 3.3U	2	D3901	MA151WK	DIODE		1
C30034		E. CAPACITOR 6.3V 22U	1	D3902	MA4062L	DIODE	Γ	1
C30035	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	D4001	MA151WA	DIODE		1
030036	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	D4002, 03	MA165	DIODE	1:	2
030037	EEVHB1H1R0	E. CAPACITOR 50V 1U	1	D4004	MA151WK	DIODE	1	
C30038	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	D4301	MA151K	DIODE	1	
030039		C. CAPACITOR CH 50V 0. 33U	1	D4302	MA153	DIODE	1	
030040		C. CAPACITOR CH 50V 3300P	,	D4501		 	+	
C30041		C. CAPACITOR CH 50V 4700P	+		MA721	DIODE	L	
	1		1	D8001-05		DIODE	Ŀ	
C30042		E. CAPACITOR 6.3V 100U	1.	D8007, 08		DIODE	Ŀ	2
C30043	4	C. CAPACITOR CH 16V 0.33U	1	D6201	MA723	DIODE		
C30044	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	D6202	MA720	DIODE	1	
030045	EEVHB1C100	E. CAPACITOR 16V 10U	1	D6203-05	MA723	DIODE	1	3
C30046	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	D6401	MA720	DIODE	1	
C30047	EEVHP1A100	E. CAPACITOR 10V 10U	1	D6701	MA165	DIODE	1	
C30048	EEVHBOJ220	E. CAPACITOR 6.3V 22U	1	D6719	MA720	DIODE		
C30049		C. CAPACITOR CH 16V 3.3U	1	D6720	MA165	DIODE		·
C30050	+	E. CAPACITOR 6.3V 100U	H		+		+	
C30051				D6721	210004	DIODE	L	
		C. CAPACITOR CH 50V 0.1U	1	D6722	MA4082L	DIODE	L	
C30052		C. CAPACITOR CH 50V 220P	1	D6724	MA165	DIODE	L	
C30053		C. CAPACITOR CH 50V 330P	1	D6739	MA723	DIODE		·
C30054	+	C. CAPACITOR CH 50V 100P	1	D7902	MA4056-H	DIODE	1	
C30055	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	D7905	RB441PT-77	DIODE	1	
C30057	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1	D7909	MA4130L	DIODE		
C30058		C. CAPACITOR CH 50V 0.1U	1	D30001	MA151K	DIODE		
C30059	·	E. CAPACITOR 50V 1U	1	D30002	1SV228	DIODE	H	
C30060		C. CAPACITOR CH 50V 0.01U	+		134220	DIODE	Η'	
C30060		C. CAPACITOR CH 16V 0.1U	-		VII 5455-	FUTES	-	ļ
			-	FL3401	VLF1367	FILTER	_1	
		C. CAPACITOR CH 50V 0.1U	4				L	
		C. CAPACITOR CH 16V 0.1U	7	FP3201	VJ\$3251	CONNECTOR (FEMALE)	1	l .
C30073		C. CAPACITOR CH 50V -0, 01U	1				Г	
C30074	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	I C2001	M31020VLEG	IC	1	
C30075	EEVHB1C100	E. CAPACITOR 16V 10U	1	102002	M62370GP	IC	1	
C30076	ECEV1CA100	E. CAPACITOR CH 16V 10U	1	102003	PST7029	IC	1	
C30077, 7	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	I C2004	S29L331AFS	Ic	1	
C30079		C. CAPACITOR CH 16V 1U	1	102005	D784037GK50		+	
C30080		C. CAPACITOR CH 50V 0.1U	1	102006			<u> </u>	·
C30081			-		MM1320ENRE	IC	1	
		E. CAPACITOR 6.3V 22U	1	102502	TL1453CNS	IC	1	
C30082		C. CAPACITOR CH 16V 0.1U	1	103001	T9P90EF	IC	1	
C30083		E. CAPACITOR 6. 3V 22U	1	103002	UPD489001G0	10	1	
C30084	ECUX1C104ZFV	C. CAPACITOR CH 18V 0.1U	1,	103003	MN67373	10	1	
C30086	ECUX1C104ZFV	C. CAPACITOR CH 18V 0. 1U	1	103004	M52387FP	IC	1	
C30087	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	103005	BH7086KV	IC	1	
C30088	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	103006	M52684AFP	IC	1	
C30089	ECUX1H102JCN	C. CAPACITOR CH 50V 1000P	1	103007	TC7SH00FU	IC	1	
C30090	· · · · · · · · · · · · · · · · · · ·	C. CAPACITOR CH 50V 0.1U	1	103009	TC7SH08FU	IC	-	
C30091		C. CAPACITOR CH 50V 27P	Ť	· · · · · · · · · · · · · · · · · · ·	 	·-	1	
C30092		C. CAPACITOR CH 50V 0, 01U	<u></u>		4 TC7SHU04FU	10	4	
030082	ECOX INTOSEFV	C. CAPACITOR ON SOV U. UIU		C3201	M65500FP	10	_1	
2001	144700	D. ODE		103202	UPD42S4260B		1	
D601		DIODE	1	103203	AN3741FAP	IC	1	
D2001		DIODE	1	103204	AD9057BRS	IC .	1	
02003-05		DIODE	3	103205	TC7SH08FU	10	1	
D2006-14		DIODE	9	103401	NJU4053BV	IC	1	
D2501	AK04	DIODE	1	103404	NJM2255D	IC	1	
D2503	AK04	DIODE	1	103405	NJU4053BV	lic	<u> </u>	·
D2505	AKO4	DIODE	1	103502	BU6254F	IC IC	1	
D2507		DIODE	1	103302	AN3581S	IC	-	
D3002		DIODE	1				1	
D3003		DIODE	1		TL431CLP	10	2	
D3003				103606	RN5RG22AA	10	_1	
		DIODE	1	IC3610	AN3296S	10	_1	
03203		DIODE	1	IC3701	TSB13LV11PB	N IC	1	
03502, 03		DIODE	2	I C3801	MB90089WVAS	16	1	
D3504		DIODE	1	103802	MM1108XFF	1C	1	
03602	MA4033-H	DIODE	1	103901.0	BU4052BCF	IC	2	
D3603	MA165	DIODE	1		BU4052BCF	IC	2	
D3604	MA4033-H	DIODE	1	IC4201	NJM2112V	10	1	
D3605		DIODE		1C4210	NJM2112V	IC IC	-	
D3606		DIODE	-	164210 164301			1	
D3607		DIODE	1		NJM79L05A	IIC	1	
			_	1C4302	NJM4558M	IC	1	
D3608, O9		DIODE	2	104303	UPC78L05J	IC	1	
03610		DIODE	1		NJM4558M	10	2	
D3611		DIODE	_1	104306	M62409FP	IC	1	
D3612, 13	MA165	DIODE	2	104307	NJM4558M	IC	1	
DOG44	RB441PT-77	D100E	1	104308	M62409FP	IC	1	
D3614			_					
03614			J	11				1
03614			\dashv					

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Ref. No.	Part No. BU4052BCF	Part Name & Description	cs Remarks	Ref. No.	Part No.	Part Name & Description	_	
	NJM4558M	10	2	L3901	VLQ0599J680	COIL 68UH	-	
1C4310, 11	NJM4565DD	10	1	L4001	ELESE6R8KA	COIL 6. 8UH	1	
	BU4052BCF	IC	2	L4201	VLQ0426J6R8 ELJPA100KF	COIL 6. 8UH	1	
	NJM4558M	10	1		VLQ0599J100	COIL 100H	2	
I C4316	HA17431PA	10	1	L6702, 03	ELESE331KA	COIL 330UH	1	*****
1C4501	AK4520A-VF	10	1	L6702	VLQ0599J680	COIL 68UH	+ ;	
		10	1	L6706	VLQ0599J680	COIL 68UH	1	-
1C4703	PST591D	10	1	L30001	VLQ0163J100	COIL 10UH	1	
I C6001	M31020VLEF	10	1		VLQ0319K100	COIL 10UH	3	
106002	PST7029	10	1	L30005	VLQ0319K680	COIL 68UH	1	
1 C6003	MC14013BF	10	1			000,7	H	
I C6004	TC7W74FU	IC	1	LB601, 02	VLP0145	CHIP INDUCTOR	2	/
I C6005	TC7S86FU	IC	1	LB2001, 02	VLP0145	CHIP INDUCTOR	2	
I C6006	TC75W54FU	IC	1	LB2004-08	VLP0145	CHIP INDUCTOR	3	
I C6201	S80743AL	10	1	LB2007	VLF1148A241	CHIP INDUCTOR	1	
I C6202	BU4052BCF	IC	1	LB2501, 02	VLP0083	FILTER	2	
I C6203	M6M80041P	10	1	LB3001, 02	VLP0364	CHIP INDUCTOR	2	
I C6205	M38027V4EH	10	1	LB3003	VLP0145	CHIP INDUCTOR	1	
I C6401	M66010GP	10	1.	LB3006	VLP0145	CHIP INDUCTOR	1	
I C6403	M66010GP	IC	1	LB3011	VLP0145	CHIP INDUCTOR	1	
I C6701	NJM79L08UA	10	1	LB3401, 02	VLP0323A601	CHIP INDUCTOR	2	
I C6702	NJM78L08UA	10	1	LB3501-03	VLP0196	CHIP INDUCTOR	3	
I C6703	NJM2904M	10	1	LB3505-0	VLP0323A601	CHIP INDUCTOR	3	
	TL431CLP	10	2	LB3509, 10	VLP0196	CHIP INDUCTOR	2	
I C6707	RN5RG30AA	IC	1	LB3511-13	VLP0323A601	CHIP INDUCTOR	3	
106708	TCHC4538AF	10	1	LB3701	VLP0145	CHIP INDUCTOR	1	
IC6709-11	TC7W74F	10	3	L86001	VLP0145	CHIP INDUCTOR	1	
IC6712	TC7W08F	10	1	LB6003, 04	VLP0145	CHIP INDUCTOR	2	
106713	TC7SH32F	IC	1	LB6201, 02	VLP0083	FILTER	2	
106714	TC7S08F	IC	1	LB6701-06	VLP0083	FILTER	6	
I C 7901	M66006FP	IC	1					
I C30001	TA1221AF	10	1	P1102	VJS1239T	CONNECTOR (FEMALE)	1	
1C30002	TC90A23F	10	1	P2502	VJP1931T	CONNECTOR (MALE)	1	
1030003	TA8761P	10	1	P3701	VJP1229T	CONNECTOR (MALE)	1	
1030004	TC52V4300SF	IC	1	P3701	VJP3125B006	CONNECTOR (MALE) 6P	1	
1030005	NJM2904M	IC	1	P4001		CONNECTOR (FEMALE)	1	
1030006	MC74HCUO4AF	10	1	P6201	VJP1231T	CONNECTOR (MALE) 4P	1	
1030007, 08		IC	2	P6401		CONNECTOR (FEMALE)	1	
1C30009	PST9129	IC	1	P6701		CONNECTOR (FEMALE)	1	
A 1555				P6703		CONNECTOR (FEMALE)	1	
⚠ IP3601	VSF0015A04	1C PROTECTOR	1	P6707	VJP1393T	CONNECTOR (MALE) 13P	1	
⚠ 1P3602, 03	VSF0015A06	IC PROTECTOR	2	P6707	VJS1239T	CONNECTOR (FEMALE)	1	
⚠ 1P3604	VSF0015A025	IC PROTECTOR	1	P7901		CONNECTOR (FEMALE)	_ 1	
A 1P6701	VSF0015A025	IC PROTECTOR	1	P7902	VJS3537A017G	CONNECTOR (FEMALE)	1	
<u> </u>	VSF0015A04	IC PROTECTOR		77777			_	
JK602	VJJ0242	REMOTE CONTROL JACK	1			CONNECTOR (MALE)	3	
JK603	VJJ0577	JACK	1	PP3604 PP3605		CONNECTOR (MALE)	1	
JK3900			1			CONNECTOR (MALE)	1	
010000	VEJ1856	1/0 JACK	-	PP3606		CONNECTOR (MALE)	1	
K2503, 04	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	2	PP3610	VJP3994	CONNECTOR (MALE)	1	
	LN000L10122	miniculation on 17 (Off 1, 2N	•	PP3701 PP3901		CONNECTOR (MALE)	1	
L2001	ELJPA100KF	COIL 10UH	1	PP4001		CONNECTOR (MALE) CONNECTOR (MALE)	1	
L2003	ELJPA100KF	COIL 100H	1			CONNECTOR (MALE)	2	
L2501-04	VLQ0614K331	COIL 330UH	4	PP6708		CONNECTOR (MALE)	1	
L3001-04	ELJPA100KF	COIL 10UH	4	110700	.0.0072002011	COMMEDIUM (MALE)	 ' -	
L3006-08	ELJPA100KF	COIL 10UH	3	PS601	VJS3042F000W	CONNECTOR (FEMALE)	1	
L3009	VLQ0426J120	COIL 12UH	1	P\$2501		CONNECTOR (FEMALE)	1	
L3011	ELJPA100KF	COIL 10UH	1	PS3001	VJS3994	CONNECTOR (FEMALE)		
L3151,52	ELJPA220KB	COIL 22UH	2	PS3002	VJP3884B060	CONNECTOR (MALE)	H	
L3201-07	ELJPA100KF	COIL 10UH	7			CONNECTOR (FEMALE)	2	
L3208	ELJPA220KB	COIL 22UH	1	PS3501		CONNECTOR (FEMALE)	1	
L3209	ELJPA100KF	COIL 10UH	1	PS3901		CONNECTOR (FEMALE)	1	
L3401		COIL 33UH	1	P\$3902		CONNECTOR (FEMALE) 14P	i i	
L3501		COIL 33UH	1	PS3903		CONNECTOR (FEMALE)	1	
L3503	VLQ0211J220	COIL 22UH	1	PS3904		CONNECTOR (FEMALE)	+	
L3504		COIL 10UH	1			CONNECTOR (FEMALE)	2	
L3505		COIL 68UH	1	PS6701		CONNECTOR (FEMALE)	-	
L3604, 05	 	COIL 68UH	2				H	
L3606	VLQ0599J330	COIL 33UH	1	02501	2SB1073	TRANSISTOR	1	
L3701-03	ELJPA100KF	COIL 10UH	3	Q2506, 07	 	TRANSISTOR	. 2	
L3801, 02	VL00319K330	COIL 33UH	2	Q2509	2SB1073	TRANSISTOR	1	
L3803	VLQ0163J220	CO1L 22UH	1	Q3001	2SD1819	TRANSISTOR	1	
L3804, 05	VLQ0319K330	COIL 33UH	2	Q3002	2SB1218	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & DescriptionP	Domonko.	D.C.V.	D. M.	D . N . A D	L	n ,
Q3003	2SD1819A	TRANSISTOR	cs Remarks	Ref. No. QR2003	Part No.	Part Name & Description TRANSISTOR-RESISTOR	PC:	s Remarks
Q3004	2SD1819	TRANSISTOR	1	QR2503	UN2215	TRANSISTOR-RESISTOR	₩;	_
93005	2SB1218	TRANSISTOR	1	QR2508	UN2115	TRANSISTOR-RESISTOR	+ ;	<u> </u>
03151, 52		TRANSISTOR	2	QR3151, 5		TRANSISTOR-RESISTOR	2	
93201	2SB1218A-R	TRANSISTOR	1	QR3603	MUN2113	TRANSISTOR-RESISTOR	1	
Q3202	2SC3931-C	TRANSISTOR	1	QR3604	MUN2213	TRANSISTOR-RESISTOR	+	
03203. 04	2SD1819A	TRANSISTOR	2	QR3607	MUN2213	TRANSISTOR-RESISTOR	<u>'</u>	
Q3401	MSD601-R	TRANSISTOR	1	QR3609	MUN2213	TRANSISTOR-RESISTOR	+;	+
Q3402	MSB709-R	TRANSISTOR	1	QR3902	MUN2213	TRANSISTOR-RESISTOR	1	+
Q3403	MSD601-R	TRANSISTOR	1	QR3903	XN1213	TRANSISTOR-RESISTOR	1	
Q3404	2SB1218	TRANSISTOR	1	QR3904, 0	 	TRANSISTOR-RESISTOR	2	
Q3405	2803930	TRANSISTOR	1	QR4001	MUN2213	TRANSISTOR-RESISTOR	1	
Q3406	2SA1532	TRANSISTOR	1	QR4003	MUN2112	TRANSISTOR-RESISTOR	 	
Q3407	MSD601-R	TRANSISTOR	1	QR4301	UN2119	TRANSISTOR-RESISTOR	1	<u> </u>
Q3408	2SD1819	TRANSISTOR	1	QR4302	MUN2212	TRANSISTOR-RESISTOR	1	
Q3501	MSC2295-B	TRANSISTOR	1	QR4303	MUN2213	TRANSISTOR-RESISTOR	1	
03502	2SA1022	TRANSISTOR	1	QR4701	MUN2213	TRANSISTOR-RESISTOR	1	
Q3503	2SD1819	TRANSISTOR	1	QR4702	MUN2212	TRANSISTOR-RESISTOR	1	
Q3504	MSD601-R	TRANSISTOR	1	QR6001	UN5213	TRANSISTOR-RESISTOR	1	1
Q3505	2SB1218	TRANSISTOR	1	QR6201-0	MUN2213	TRANSISTOR-RESISTOR	4	
Q3506, O7	MSB709-R	TRANSISTOR	2	QR6401~0	MUN2211	TRANSISTOR-RESISTOR	4	
Q3508	2SD1819	TRANSISTOR	1	QR6405	MUN2213	TRANSISTOR-RESISTOR	1	
Q3601-06	2SD1996	TRANSISTOR	6	QR6701	MUN2213	TRANSISTOR-RESISTOR	1	
Q3607	2SB956	TRANSISTOR	1	QR6704	DTC144EA	TRANSISTOR-RESISTOR	1	
Q3608	2SD1996	TRANSISTOR	1	QR6705-1	MUN2213	TRANSISTOR-RESISTOR	6	
Q3610-12		TRANSISTOR	3	QR7902	MUN2211	TRANSISTOR-RESISTOR	1	
Q3613	2SD1991A	TRANSISTOR	t	QR7905	XN1211	TRANSISTOR-RESISTOR	1	
Q3614	2SD1996	· · · · · · · · · · · · · · · · · · ·	1	QR7906	MUN2213	TRANSISTOR-RESISTOR	1	
			2	QR30001,2	MUN2211	TRANSISTOR-RESISTOR	2	
Q3803	2SD1819		1					
03806	MSD801-R	TRANSISTOR	1	R603, 04	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
03808	2SD1819		1	R608-10	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	3	
03809	MSB709-R	TRANSISTOR	1	R2001	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
Q3811	MSB709-R	TRANSISTOR	1	R2002, 03	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
03901, 02	MSB709-R	TRANSISTOR	2	R2006-21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	16	
03903	XN6401		1	R2022-27	ERJ3GEYORO0	M. RESISTOR CH 1/16W 0	6	
Q3904	MSD601-R	TRANSISTOR	1	R2028	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	_ 1	
Q3905	XN8401	TRANSISTOR	1	R2029~31		M. RESISTOR CH 1/16W 0	3	
Q3906	MSD601-R	TRANSISTOR	1	R2032	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
03908	MSB709-R	TRANSISTOR	1	R2034		M. RESISTOR CH 1/16W 1M	1	
Q4001	2\$K1 70BL	TRANSISTOR	1	R2035	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1	
Q4002	MSB709-R	TRANSISTOR	1	R2036		M. RESISTOR CH 1/16W 47K	1	
Q4003	2SD1992A	TRANSISTOR	1	R2037		M. RESISTOR CH 1/16W 56	1	
Q4004	MSD601-R	TRANSISTOR	1	R2038		M. RESISTOR CH 1/16W 100K	1	
04005	2SB1320A	TRANSISTOR	1	R2039		M. RESISTOR CH 1/16W 0	1	
Q4301 Q4302	2SD1468T93 MSB709-R		1	R2040		M. RESISTOR CH 1/16W 330	1	
94303-10		TRANSISTOR	1	R2042		M. RESISTOR CH 1/16W 0	1	
Q4303-10 Q4311, 12			8	R2045		M. RESISTOR CH 1/16W 0	1	
Q4311.12			3	R2046		M. RESISTOR CH 1/16W 10K	1	
Q6001	2SB970X			R2047		M. RESISTOR CH 1/16W 1K		
96201-04			1	R2048		M. RESISTOR CH 1/16W 0	1	
Q6401	MSD601-R		4	R2049		M. RESISTOR CH 1/10W 1.2K	1	
Q6701. O2			1			M. RESISTOR CH 1/16W 0	3	
96703	2SD1992A		1			M. RESISTOR CH 1/16W 0	6	
96704	2SB956		1			M. RESISTOR CH 1/16W 100	2	
Q6705			1			M. RESISTOR CH 1/10W 1.2K	2	
Q6708, O7			2	R2065		M. RESISTOR CH 1/16W 0	1	
Q7901	2SB1321A		1			M. RESISTOR CH 1/16W 47K	2	
07902	2SD1996		1	R2070. /1		M. RESISTOR CH 1/16W 0	2	
Q7905	2SD1996		1	R2074		M. RESISTOR CH 1/16W 0	1	
Q7908	MSD601-R		1	R2076		M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 33K	1	
Q30001	MSD601-R		1	R2077			1	
030003	MSD601-R		1	R2079			۲.	
930004	MSB709-R		1	R2080		M. RESISTOR CH 1/16W 47K M. RESISTOR CH 1/16W 1M	1	
Q30005	MSD601-R	7044040700	1	R2081		M. RESISTOR CH 1/16W 27K	<u> </u>	
Q30006, 07			2	R2082		M. RESISTOR CH 1/10W 2/K	1	
930008	MSD601-R		1	R2084		M. RESISTOR CH 3W 33K	1	
Q30009	MSB709-R	TRANSISTOR	1			M. RESISTOR CH 1/16W 8.2K	2	
Q3001 O	2SD1819		1			M. RESISTOR CH 1/16W 100	2	
Q30011	2SB1218	TRANSISTOR	1	R2090		M. RESISTOR CH 1/18W 0	1	
030012	MSD601-R	TRANSISTOR	1	R2092		M. RESISTOR CH 1/16W 100	1.	
Q3001 <i>4</i>	2SD1819	TRANSISTOR	1			M. RESISTOR CH 1/16W 100	4	
						M. RESISTOR CH 1/16W 100	3	
QR2001, 02	UN5213	TRANSISTOR-RESISTOR	2	R2111		M. RESISTOR CH 1/16W 22K	1	
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Ref. No.	Part No.	Part Name & Description	Pc:	Remarks	Ref. No.	Part No.	Part Name &	Descr	iption	Pcs	Remarks
R2112	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R3057, 58		M. RESISTOR C			2	
R2113	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1				M. RESISTOR C		22K	2	
R2115	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1		R3064		M. RESISTOR C		0	1	
R2116	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R3065		M. RESISTOR C		1K	1	
R2504	 	M. RESISTOR CH 1/10W 1K	1							-	
R2505		C. RESISTOR 1/4W 680	1		R3068		M. RESISTOR C		0	2	
R2513		M. RESISTOR CH 1/10W 1K	<u>'</u>				M. RESISTOR C		1K	1	
R2514			+	 			M. RESISTOR C		1 0 K	2	
		C. RESISTOR 1/4W 680	1		R3072	ERJ3GEYJ104	M. RESISTOR C	H 1/16W	100K	1	
R2523		M. RESISTOR CH 1/10W 330	1		R3073	ERJ3GEYJ563	M. RESISTOR C	H 1/16W	56K	1	
R2524		C. RESISTOR 1/4W 1.2K	1		R3074	ERJ3GEY0R00	M. RESISTOR C	H 1/16W	0	1	
R2525-27	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470	3		R3075	ERJ3GEYJ101	M. RESISTOR C	H 1/16W	100	1	
R2528	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R3077	ERJ3GEY0R00	M. RESISTOR C	H 1/16W	0	1	
R2534, 35	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2		R3079		M. RESISTOR C			1	
R2537	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1				M. RESISTOR C		0	3	
R2538, 39		M. RESISTOR CH 1/10W 100K	2		R3083	ERJ2GEOROO				1	
		M. RESISTOR CH 1/10W 10K	2		R3084		M. RESISTOR C		0	-	
R2543		M. RESISTOR CH 1/10W 15K	1				M. RESISTOR C		1. 5K	_1	
R2544			-		R3085		M. RESISTOR C		1K	1	
		M. RESISTOR CH 1/10W 470K	1		R3086	ERJ3GEY0R00	M. RESISTOR C	H 1/16W	0	1	
R2545		M. RESISTOR CH 1/10W 100K	_1		R3088	ERJ3GEYJ103	M. RESISTOR C	H 1/16W	10K	1	
R2546		M. RESISTOR CH 1/10W 18K	1		R3089, 90	ERJ3GEYJ392	M. RESISTOR C	H 1/16W	3. 9K	2	
R2547	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1		R3091	ERJ3GEYJ272	M. RESISTOR C	H 1/16W	2. 7K	1	
R2548	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R3092		M. RESISTOR C		1 K	1	
R2549	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1		R3094		M. RESISTOR C		10K	1	
R2550	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1		R3095		M. RESISTOR C		0	1	
R2551		M. RESISTOR CH 1/10W 1BK	1		R3097		M. RESISTOR C		47K	1	
R2552		M. RESISTOR CH 1/10W 470K	1								
R2553		M. RESISTOR CH 1/10W 15K	1				M. RESISTOR C		1K	3	
R2554				-			M. RESISTOR C		0	1	
		M. RESISTOR CH 1/10W 330	1				M. RESISTOR C		22K	1	
R2555		C. RESISTOR 1/4W 1.2K	1		R3120-22	ERJ3GEYG152	M. RESISTOR C	H 1/16W	1. 5K	3	
R2556		M. RESISTOR CH 1/10W 470	_1		R3123	ERJ3GEYJ564	M. RESISTOR C	H 1/16W	560K	1	
R3001	ERJ2RHD104	M. RESISTOR CH 2W 100K	1		R3151-57	ERJ3GEY0R00	M. RESISTOR C	H 1/16W	0	7	
R3002	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R3158	ERJ3GEYJ562	M. RESISTOR C	H 1/16W	5. 6K	1	
R3003	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3159-63		M. RESISTOR C		0	5	
R3004	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1				M. RESISTOR C		2. 2K	3	
R3005, 06		M. RESISTOR CH 1/16W 10K	2		R3174		M. RESISTOR C		_		
R3007		M. RESISTOR CH 1/16W 6. BK	1		R3175				111	1	
R3008		M. RESISTOR CH 1/16W 3K	1				M. RESISTOR CI		220	1	
R3009			-	 -	R3176		M. RESISTOR C		1K	1	
			1		R3177		M. RESISTOR CI		1 M	1	
R3010		M. RESISTOR CH 1/16W 390	1		R3178	ERJ3GEYJ181	M. RESISTOR C	H 1/16W	180	1	
		M. RESISTOR CH 1/16W 22K	2		R3179, B0	ERJ3GEYG102	M. RESISTOR C	H 1/16W	1K	2	
R3013		M. RESISTOR CH 1/16W 3.3K	1		R3201	ERJ2GEJ102	M. RESISTOR CI	H 2W	1 K	1	
R3014	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R3202	ERJ3GEY0R00	M. RESISTOR CI	1/16W	0.	1	
R3016	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		R3203	ERJ3GEYJ562	M. RESISTOR CI	1/16W	5. 6K	1	
R3017	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1		R3204	ERJ3GEYJ121	M. RESISTOR CI	1/16W	120	1	
R3018	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R3205		M. RESISTOR C		5. 6K	1	
R3019		M. RESISTOR CH 1/16W 10K	1				M. RESISTOR CI		120	2	
R3020		M. RESISTOR CH 1/16W 270	1		R3208		M. RESISTOR C				
R3021		M. RESISTOR CH 1/16W 3.3K	1						8. 2K	1	
R3022		M. RESISTOR CH 1/16W 120	1				M. RESISTOR CI		5. 6K	1	
R3023							M. RESISTOR C		560	_1	
		M. RESISTOR CH 1/16W 6.8K	_				M. RESISTOR C		68	1	
R3024		M. RESISTOR CH 1/16W 3.3K	1				M. RESISTOR CI		0	1	
R3025		M. RESISTOR CH 1/16W 0	1		R3213	ERJ3GEYG682	M. RESISTOR CH	1/16W	6. 8K	1	
R3026		M. RESISTOR CH 1/16W 27K	1		R3214	ERJ3GEYG102	M. RESISTOR C	1/16W	1K	1	
R3027		M. RESISTOR CH 1/16W 22K	1	i	R3215	ERJ6GEYG122	M. RESISTOR CH	1/10W	1. 2K	1	
R3028		M. RESISTOR CH 1/16W 18K	1				M. RESISTOR CH		100	1	
R3030	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1				M. RESISTOR CH		3. 9K	1	
R3031	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1				M. RESISTOR CH		2. 2K	1	
R3032	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1				M. RESISTOR CH		560K	1	
R3033		M. RESISTOR CH 1/16W 15K	1				M. RESISTOR CH		390	1	
R3034		M. RESISTOR CH 1/16W 8. 2K	1				M. RESISTOR CH				
R3035		M. RESISTOR CH 1/16W 22K	1						220	_1	
R3036		M. RESISTOR CH 1/16W 8. 2K	1				M. RESISTOR CH		2. 2K	_1	
R3037							M. RESISTOR C		10K	1	
		M. RESISTOR CH 1/16W 22K	1				M. RESISTOR CH		3. 9K	1	
		M. RESISTOR CH 1/16W 1M	2				M. RESISTOR CH		220K	1	
R3042		M. RESISTOR CH 1/16W 1M	1				M. RESISTOR CH		56K	1	
R3043		M. RESISTOR CH 1/16W 100K	1		R3228	ERJ3GEYJ392	M. RESISTOR CH	1/16W	3. 9K	1	
R3044	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1				M. RESISTOR CH		220K	1	
R3046	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1				M. RESISTOR CH		1. 2K	i	
R3047	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1				M. RESISTOR CH		330	╗	
R3048, 49		M. RESISTOR CH 1/16W 220	2				M. RESISTOR CH			1	
		M. RESISTOR CH 1/16W 470	2				M. RESISTOR CH			-	
R3052		M. RESISTOR CH 1/16W 1M	1	——————————————————————————————————————					3. 9K	3	
R3053		M. RESISTOR CH 1/16W 0	1				M. RESISTOR CH		100K	_1	
R3054		M. RESISTOR CH 1/16W 1M	_				M. RESISTOR CH		10K	_1	
R3055			1	-			M. RESISTOR CH		3. 9K	2	
73055	EKUSUETUKUU	M. RESISTOR CH 1/16W 0	1	· L	R3242, 43	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	2	
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Ref. No.	Part No.	Part Name & Description	rPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pr.	s Remarks
		M. RESISTOR CH 1/16W 10H	_	Nomal RD	R3618		M. RESISTOR CH 1/10W 1.2K	10.	A Remarks
			_		· · · · · · · · · · · · · · · · · · ·			 	
		M. RESISTOR CH 1/16W	-		R3619	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R3249	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68H	1		R3620	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R3250	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47H	1		R3621	ERJ6GEYG132	M. RESISTOR CH 1/10W 1.3K	1	
R3251		M. RESISTOR CH 1/16W 22F			R3622		M. RESISTOR CH 1/10W 1K	1	
			_		 			⊢ ∸	
	ERJ3RBD181	M. RESISTOR CH 3W 180	+		R3623		M. RESISTOR CH 1/10W 10K	1	<u> </u>
R3253	ERJ3RBD301	M. RESISTOR CH 3W 300) 1		R3624	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	_1	1
R3254	ERJ3RBD391	M. RESISTOR CH 3W 390	1		R3625	ERDS2TJ391	C. RESISTOR 1/4W 390	1	
R3255	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5H	1		R3626	ERJ6RBD512	M. RESISTOR CH 1/10W 5.1K	1	
R3257		M. RESISTOR CH 1/16W 120H	_					-	
					R3627		C. RESISTOR 1/4W 270	1	
R3258-62	ERJ3GEYOROO	M. RESISTOR CH 1/16W	-		R3628	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1 1	
R3263	ERJ3GEYG102	M. RESISTOR CH 1/16W 19	1		R3629, 30	ERJ6RBD512	M. RESISTOR CH 1/10W 5.1K	2	
R3264-67	ERJ3GEY0R00	M. RESISTOR CH 1/16W) 4		R3631, 32	ERDS2TJ181	C. RESISTOR 1/4W 180	2	
R3401	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560) 1		R3634	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1	
			-					1	
			$\overline{}$		R3635		M. RESISTOR CH 1/10W 47K	 	
		M. RESISTOR CH 1/10W 2.2F	-		R3638	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R3404, 05	ERJ6GEYG102	M. RESISTOR CH 1/10W 11	2		R3639	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R3406	ERJ6GEYF333	M. RESISTOR CH 1/10W 33H	1		R3644	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R3407		M. RESISTOR CH 1/10W 22H	1		R3649		M. RESISTOR CH 1/10W 2.2K	1	
	· · · · · · · · · · · · · · · · · · ·		+					+:	· · · · · · · · · · · · · · · · · · ·
R3408		M. RESISTOR CH 1/10W 2.2F	-		R3650		M. RESISTOR CH 1/10W 10K	-	
R3409, 10	ERJ3GEYG102	M. RESISTOR CH 1/16W 1	2		R3651	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R3411	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33H	1		R3652	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1]
R3412	ERJ3GEYJ223	M. RESISTOR CH 1/18W 22H	1		R3653	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R3413		M. RESISTOR CH 1/16W 33H	4			ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
		 	-			·		1-2	
		M. RESISTOR CH 1/16W 1.2	+		R3660	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	\perp 1	
R3415	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560) 1		R3662	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	<u>L</u> 1	
R3416	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22H	1		R3663	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	
R3417	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560			R3664	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	+	
								+-	
		M. RESISTOR CH 1/16W 11			R3665	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	<u> </u>	·
		M. RESISTOR CH 1/10W 1. 2	(3		R3666	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K	1	
R3422	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	l .	R3667	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	_ 1	
R3423	ERJ6GEYG122	M. RESISTOR CH 1/10W 1. 2	1		R3668	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R3424		M. RESISTOR CH 1/10W 10I			R3669		M. RESISTOR CH 1/10W 100	1	
R3425		 	-					-	· · · · · · · · · · · · · · · · · · ·
		M. RESISTOR CH 1/8W	+		R3670	 	M. RESISTOR CH 1/10W 680K	1	
R3440	ERJ6GEYG223	M. RESISTOR CH 1/10W 22I	1		R3671	ERJ6GEYG753	M. RESISTOR CH 1/10W 75	1	
R3441	ERJ6GEYF333	M. RESISTOR CH 1/10W 33I	(1		R3672	ERJ6GEYG824	M. RESISTOR CH 1/10W 820K	1	
R3442	ERJ6GEYG102	M. RESISTOR CH 1/10W 1	(1		R3701	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
R3443		M. RESISTOR CH 1/16W 33I	+-		R3702	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	Ħ	
R3444		· · · · · · · · · · · · · · · · · · ·	-					+:	
		M. RESISTOR CH 1/16W 22			R3703	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3445		M. RESISTOR CH 1/16W 1	(1		R3708	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
R3501	ERJ6GEYG102	M. RESISTOR CH 1/10W 1	(1	i .	R3709	ERJ3RBD272	M. RESISTOR CH 3W 2.7K	1	
R3502	ERJ6GEYG221	M. RESISTOR CH 1/10W 22) 1		R3710	ERJ3RB0332	M. RESISTOR CH 3W 3.3K	1	
R3503	ERJ8GEYG271	M. RESISTOR CH 1/10W 27			R3711		M. RESISTOR CH 1/16W 390K	1	
R3504					<u> </u>			+	
	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7	_			ERJ3RED560	M. RESISTOR CH 3W 56	+-	
R3505	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2	(1		R3719	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	1
R3506	ERJ3GEYJ101	M. RESISTOR CH 1/16W 10	1		R3720	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3507	ERJBGEYG122	M. RESISTOR CH 1/10W 1.2	(1		R3721-25	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	5	
R3508-10	ERJ3GEYJ101	M. RESISTOR CH 1/16W 10			R3728-33	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	+	
								+	
		M. RESISTOR CH 1/10W 1.2	-		R3735	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1	
R3514	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2	(1		R3736	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3516	ERJ3GEYG102	M. RESISTOR CH 1/16W 1	(1		R3737	ERJ3GEYJ270	M. RESISTOR CH 1/16W 27	1	
R3517	ERJ3GEYJ331	M. RESISTOR CH 1/16W 33) 1		R3738		M. RESISTOR CH 1/16W 0	-	
R3518		M. RESISTOR CH 1/16W 1	-		R3739, 40		M. RESISTOR CH 1/16W 10K	_	
R3519								-	
		M. RESISTOR CH 1/16W 47	+-		R3801		M. RESISTOR CH 1/10W 1K		
R3520		M. RESISTOR CH 1/10W 58	_		R3804		M. RESISTOR CH 1/16W 47K	-	
		M. RESISTOR CH 1/10W 3.3	(2		R3806	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3526	ERJ3GEYG102	M. RESISTOR CH 1/16W 1	(1		R3808	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3527		M. RESISTOR CH 1/10W 470	→—		R3809		M. RESISTOR CH 1/16W 2.2K	† <u>;</u>	
R3528		M. RESISTOR CH 1/16W 2.2						+:	
					R3810	ERJ6RBD104	M. RESISTOR CH 1/10W 100K	╁-!	
R3530		M. RESISTOR CH 1/10W 1			R3811		M. RESISTOR CH 1/16W 1K	1	
R3531	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2	(1		R3812	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	
R3532	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3	(1		R3814	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	+	
R3533		M. RESISTOR CH 1/10W 10	-+		R3815		M. RESISTOR CH 1/10W 470	+	
R3534					· · · · · · · · · · · · · · · · · · ·			₽!	
		M. RESISTOR CH 1/10W 33	+		R3816		M. REISITOR CH 1/10W 6.8K	1	<u> </u>
R3535		M. RESISTOR CH 1/10W 2.7	_		R3817	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
R3601	ERJ6RBD512	M. RESISTOR CH 1/10W 5, 1	(1		R3818	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R3602	ERJ6GEYF473	M. RESISTOR CH 1/10W 47	(1		R3819		M. RESISTOR CH 1/16W 330	+-	
R3604		M. RESISTOR CH 1/10W 2.2	-		R3820			+	
			-	 				+	
R3606		M. RESISTOR CH 1/10W 10	-				M. RESISTOR CH 1/10W 100	+	
R3607	ERJ6GEYF473	M. RESISTOR CH 1/10W 47	(1		R3823	ERJ6GEYJ334	M. RESISTOR CH 1/10W 330K	_1	
R3610	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2	र ।		R3824	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	1	
R3613.14		M. RESISTOR CH 1/10W 1			R3825-27		M. RESISTOR CH 1/16W 100	+	
R3615		M. RESISTOR CH 1/10W 220	-						· · · · · · · · · · · · · · · · · · ·
			-	 	R3828		M. RESISTOR CH 1/16W 10K	1	1
R3616		M. RESISTOR CH 1/10W 470	-		R3831		M. RESISTOR CH 1/10W 580	1	
R3617	ERJ6GEYG102	M. RESISTOR CH 1/10W 1	<u> </u>		R3834	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
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	T		1					1	————
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Ref. No.	Part No.	Part Name & DescriptionPo	s Remarks	Ref. No.	Part No.	art Name & Descrip	tion	Pre	Remarks
R3837		M. RESISTOR CH 1/10W 1K		R4313		M. RESISTOR CH 1/10W		_	Remarks
<u> </u>							18K	-	
			· · · · · · · · · · · · · · · · · · ·	R4314		M. RESISTOR CH 1/10W	_1K	1	
R3905-08	ERJ6GEYG750	M. RESISTOR CH 1/10W 75	4	R4315	ERJ6RBD123	M. RESISTOR CH 1/10W	12K	1	
R3909, 10	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	R4316	ERJ6RBD103	M. RESISTOR CH 1/10W	10K	1	
R3912, 13	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K :	2	R4317	ERJ6RBD123	M. RESISTOR CH 1/10W	12K	1	
R3915, 16	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R4318			200K	1	
R3917		M. RESISTOR CH 1/10W 470		R4319				₩.	
		 	 		1		100K	1	
R3918		M. RESISTOR CH 1/10W 10K		R4320	ERJ6RBD103	M. RESISTOR CH 1/10W	10K	1	
R3919	ERJ6GEYJ471	M. RESISTOR CH 1/10W 470]	R4321	ERJ6RBD104	M. RESISTOR CH 1/10W	100K	1	
R3920-22	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	R4322	ERJ6RED204	M. RESISTOR CH 1/10W	200K	1	
R3923	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K		R4323	1	W. RESISTOR CH 1/10W	27K	1	
R3924		M. RESISTOR CH 1/10W 100K		R4324	 	M. RESISTOR CH 1/10W	750	1	
		 						-	
				R4325	1	·	200K	1	
R3927	ERJ6RB0222	M. RESISTOR CH 1/10W 2.2K		R4326	ERJ6RBD112	M. RESISTOR CH 1/10W	1. 1K	1	
R3928	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K		R4327	ERJ6GEYG101 N	M. RESISTOR CH 1/10W	100	1	
R3929	ERJ6RBD162	M. RESISTOR CH 1/10W 1.6K		R4328	ERJ6RED204	M. RESISTOR CH 1/10W	200K	1	
R3930	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K		R4329	 	M. RESISTOR CH 1/10W	330	1	
R3931		M. RESISTOR CH 1/10W 100K			 			-	
				R4330	 	M. RESISTOR CH 1/10W	100	1	
R3932	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K		R4331	ERJ6GEYG105	M. RESISTOR CH 1/10W	1 M	1	
R3933	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4332	ERJ6RBD223	M. RESISTOR CH 1/10W	22K	1	
R3938	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	R4333		W. RESISTOR CH 1/10W	47K	1	
R3940		M. RESISTOR CH 1/10W 10K		R4334		M. RESISTOR CH 1/10W	1K	1	
R3941		M. RESISTOR CH 1/10W 4.7K			 	·			
				R4335		M. RESISTOR CH 1/10W	22K	1	
R3942		M. RESISTOR CH 1/10W 10K		R4336		M. RESISTOR CH 1/10W	10K	1	
R3943	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K		R4337	ERJ6RBD273	W. RESISTOR CH 1/10W	27K	1	
R3944	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4338			. 2K	1	
R3945, 46		M. RESISTOR CH 1/10W 75	1	R4339	 	M. RESISTOR CH 1/10W	36K	1	
R3948				·	+				
	ERJ6GEYG750	 	 	R4340		M. RESISTOR CH 1/10W	10K	1	
R3952		M. RESISTOR CH 1/10W 220K		R4342	 	M. RESISTOR CH 1/10W	68K	1	
R3955	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4343	ERJ6RBD223	M. RESISTOR CH 1/10W	22K	1	
R4004	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K		R4344	ERJERBD683 N	N. RESISTOR CH 1/10W	68K	1	
R4007	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K		R4345	ERJ6RBD223	M. RESISTOR CH 1/10W	22K	1	
R4009~14	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K		R4347	**************************************	M. RESISTOR CH 1/16W	1 OK	1	
		M. RESISTOR CH 1/10W 22K				M. RESISTOR CH 1/10W	680	2	
R4017	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	 					-	
				R4350			20K	1	
		M. RESISTOR CH 1/10W 100K	·	R4351	ERJ6RBD392	I. RESISTOR CH 1/10W 3	3, 9K	1	
R4020	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K		R4352	ERJ6RBD103	M. RESISTOR CH 1/10W	1 OK	1	
R4021	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K		R4353	ERJ6RBD392	M. RESISTOR CH 1/10W 3	3. 9K	1	
R4022	ERJ6GEYF472	M. RESISTOR CH 1/10W 4, 7K		R4354, 55	ERJ6RBD223 M	M. RESISTOR CH 1/10W	22K	2	
R4023	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M		R4356	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W	1 OK	1	
R4024	ERJ6RBD471	M. RESISTOR CH 1/10W 470		R4357				-	
R4025	ERJ6RBD102	M. RESISTOR CH 1/10W 1K				M. RESISTOR CH 1/10W	36K	1	
				R4358		M. RESISTOR CH 1/10W	1K	1	
	ERJ6RBD202	M. RESISTOR CH 1/10W 2K		R4359		M. RESISTOR CH 1/10W	10K	1	
R4028		M. RESISTOR CH 1/10W 1K		R4360	ERJ6RBD363	M. RESISTOR CH 1/10W	36K	1	1
R4029	ERJ6RBD201	M. RESISTOR CH 1/10W 200		R4361	ERDAS3G680	M. RESISTOR 3W	68	1	
R4030	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K		R4362	ERJ6GEYG102 M	M. RESISTOR CH 1/10W	1K	1	
R4031	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K		R4363		M. RESISTOR CH 1/10W	1 OK	1	
R4032		M. RESISTOR CH 1/10W 100K		R4364			7. 5K	1	
								· ·	
2				R4365	 	M. RESISTOR 3W	68	1	
		M. RESISTOR CH 1/10W 4, 7K		R4366		RESISTOR CH 1/10W	1 OK	_1	
R4039		M. RESISTOR CH 1/10W 1.2K	<u> </u>	R4367	ERJ6RBD103	M. RESISTOR CH 1/10W	1 OK	1	
R4040	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K		R4368	ERJ6GEYG102	I. RESISTOR CH 1/10W	1K	1	
R4041, 42	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K :		R4369		M. RESISTOR CH 3W	51K	_	
		M. RESISTOR CH 3W 10K		R4370		M. RESISTOR CH 1/18W	220	_	
		M. RESISTOR CH 1/16W 0				···			
			+	R4371		N. RESISTOR CH 1/10W	1K		
		M. RESISTOR CH 3W 10K		R4372		M. RESISTOR CH 1/16W	220	1	
		M. RESISTOR CH 3W 10K :		R4373	ERJ3RBD513	M. RESISTOR CH 3W	51K	1	
R4215, 16	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0		R4374	ERJ6GEYG101 M	M. RESISTOR CH 1/10W	100	1	
R4217. 18	ERJ3RBD103	M. RESISTOR CH 3W 10K		R4375		M. RESISTOR CH 1/10W	1K	_	
		M. RESISTOR CH 1/10W 4.7K					-	_	
				R4376	-	· · · · · · · · · · · · · · · · · · ·	. 2K	1	
		M. RESISTOR CH 3W 10K		R4377			7. 5K	1	
		M. RESISTOR CH 1/16W 10K		R4379	ERJ3GEYJ101	N. RESISTOR CH 1/16W	100	1	
R4227, 28	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	R4380	ERJ3GEYG102	A. RESISTOR CH 1/16W	1K	ī	
R4229-32	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330		R4381			100	1	
R4233		M. RESISTOR CH 1/16W 0		R4382	 		. 2K	H	
R4301	ERJ6RBD103	M. RESISTOR CH 1/10W 10K		R4384		A. RESISTOR CH 1/10W		 	
R4302		M. RESISTOR CH 1/10W 390	 				1K	1	
			·	R4385			100	1	
R4303		M. RESISTOR CH 1/10W 4. 7K		R4386		A. RESISTOR CH 1/16W	1K	1	
R4305		M. RESISTOR CH 1/10W 10K		R4387			1. 7K	1	
		M. RESISTOR CH 1/10W 18K 2		R4388	ERJ6GEYG103	A. RESISTOR CH 1/10W	10K	1	
R4308	ERJ6GEYG101	M. RESISTOR CH 1/10W 100		R4389	ERJ3GEYG472 N	A. RESISTOR CH 1/16W	1. 7K	1	
R4309	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K		R4390			10K	1	
R4310		M. RESISTOR CH 1/10W 100		R4391			22K	H	
R4311	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W 1K		R4392	1			<u> </u>	
R4312		M. RESISTOR CH 1/10W 100	<u> </u>				. 2K	1	
114012	ENOUGE 19101	m. NESTSTON ON 17 TOW 100		R4393	EKJOGETG103 N	A. RESISTOR CH 1/10W	10K	1	
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Ref. No.	Part No.	Part Name & Descrip	tionPc	Remarks	Ref. No.	Part No.	Part Name & Description	rPc:	s Remarks
R4394	ERJ3GEYJ561	M. RESISTOR CH 1/16W	560 1		R6201			1	
R4396	ERJ6GEYG101	M. RESISTOR CH 1/10W	100 1		R6202-04		M. RESISTOR CH 1/10W 47H	+	
		M. RESISTOR CH 1/16W	0 1			 	M. RESISTOR CH 1/10W 3.3K	-	
		M. RESISTOR CH 1/16W	1K 1	<u> </u>		 			
							M. RESISTOR CH 1/10W 47K	+	
			5. eK 3	 	R6212		M. RESISTOR CH 1/10W 10K	-	
		·	5. 6K 3		R6213		M. RESISTOR CH 1/10W 2.2K	1	
			1. 2K 1		R6214	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4702	ERJ6GEYG152	M. RESISTOR CH 1/10W	1.5K 1		R6215	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	<u>i </u>
R4703-13	ERJ6GEYG122	M. RESISTOR CH 1/10W	1. 2K 11		R6218	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	[i	
R4714	ERJ6GEYF473	M. RESISTOR CH 1/10W	47K 1		R6219	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R4716	ERJ6GEYF473	M. RESISTOR CH 1/10W	47K 1		R6220	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R4717	ERJ6GEYG560	M. RESISTOR CH 1/10W	56 1		R6221		M. RESISTOR CH 1/10W 10K	+	
R4719		M. RESISTOR CH 1/10W	33K 1		R6222		M. RESISTOR CH 1/10W 2.2K	_	
			2. 2K 1	-					
						·		+	· · · · · · · · · · · · · · · · · · ·
							M. RESISTOR CH 1/10W 47K	+	
		M. RESISTOR CH 1/10W	10K 1		R6227		M. RESISTOR CH 1/10W 8.2K	1	
		M. RESISTOR CH 1/10W	680 4		R6228	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R6001	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1		R6244	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R6003	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1	j.	R6245	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1	
R6006	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1		R6247	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6008		M. RESISTOR CH 1/16W	150 1				M. RESISTOR CH 1/10W 2.7K		
R6009		M. RESISTOR CH 1/16W	10K 1		R6405		M. RESISTOR CH 1/10W 33K	+	
<u></u>		M. RESISTOR CH 1/16W	56 1	 	R6406	 		-	
								-	
			1.5K 1	 .			M. RESISTOR CH 1/10W 33K	+	
		M. RESISTOR CH 1/18W	150 1	 			M. RESISTOR CH 1/10W 1K	+	
R6013		M. RESISTOR CH 1/16W	330 1	<u> </u>	R6417		M. RESISTOR CH 1/10W 1.2K	+	
		M. RESISTOR CH 1/16W	1M 1		R6418	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R6015		M. RESISTOR CH 1/16W	22 1		R6419, 20	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R6016-18	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100 3		R6421	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6019-23	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 5		R6422	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R6024	ERJ3GEYJ151	M. RESISTOR CH 1/16W	150 1		R6423		M. RESISTOR CH 1/10W 10K	1	T
R6025-28		M. RESISTOR CH 1/16W	0 4				M. RESISTOR CH 1/10W 2.2K	+	
			3. 9K 1		R6426	 	M. RESISTOR CH 1/10W 10K	+	
		M. RESISTOR CH 1/16W	0 1	 				+-	
				 		1	M. RESISTOR CH 1/10W 2.2K	+	
		M. RESISTOR CH 1/16W	0 4				M. RESISTOR CH 1/10W 10K		
		M. RESISTOR CH 1/16W	150 3	 			M. RESISTOR CH 1/10W 100	4	
		M. RESISTOR CH 1/16W	0 3		R6438	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	L
R6042	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K 1		R6439-45	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	7	
R6043	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K 1		R6446	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6044	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K 1		R6447-53	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	7	
R6045	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K 1		R6454	 	M. RESISTOR CH 1/10W 10K	+	
R6046		M. RESISTOR CH 1/16W	47K 1		R6455		M. RESISTOR CH 1/10W 2.7K	+-	
R6047		M. RESISTOR CH 1/16W	1K 1			 	M. RESISTOR CH 1/10W 10K	+	
		M. RESISTOR CH 1/16W	150 2		R6459-72			+	
R6050			1.5K 1				M. RESISTOR CH 1/10W 100	+	
					R6701		M. RESISTOR CH 1/10W 560	-	
R6051		M. RESISTOR CH 1/16W	150 1		R6702	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/10W 3.9K	+	
R6052	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/16W	47K 1		R6703	ERJ6GEYG151	M. RESISTOR CH 1/10W 150	1	
R6053		M. RESISTOR CH 1/16W	0 1		R6704	ERJ6RBD561	M. RESISTOR CH 1/10W 560	1	
		M. RESISTOR CH 1/16W	10K 2		R6705	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	1
R6056, 57	ERJ3GEYG332	M. RESISTOR CH 1/16W	3.3K 2		R6706	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6058-62	ERJ3GEYOROO	M. RESISTOR CH 1/16W	0 5		R6709-12	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	4	
R6063-65	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K 3		R6713		M. RESISTOR CH 1/10W 120K	_	
R6066			2. 2K 1				M. RESISTOR CH 1/10W 1.2K		<u> </u>
R6067		M. RESISTOR CH 1/16W	1K 1				M. RESISTOR CH 1/10W 10K		
		M. RESISTOR CH 1/16W	330 2		R6718		M. RESISTOR CH 1/10W 2.7K	-	
R6070			3. 3K 1		R6719			+	
R6071		M. RESISTOR CH 1/16W	22K 1				M. RESISTOR CH 1/10W 10K	-	
R6072					R6720		M. RESISTOR CH 1/10W 2.7K	+	
		M. RESISTOR CH 1/16W	0 1		R6721		C. RESISTOR 1/4W 2.2K	+	
R6073		M. RESISTOR CH 1/16W	47K 1				M. RESISTOR CH 1/10W 10K	2	
		M. RESISTOR CH 1/16W	0 6		R6724	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R6080			2. 2K 1		R6725	ERJ6RBD151	M. RESISTOR CH 1/10W 150	1	
R6081-91	ERJ3GEYOROO	M. RESISTOR CH 1/16W	0 11		R6726		M. RESISTOR CH 1/10W 3.3K	1	
R6092	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2. 2K 1				C. RESISTOR 1/4W 820	+	
R6093	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/16W	56 1	 	R6730		M. RESISTOR CH 1/10W 10K	+	
R6094		M. RESISTOR CH 1/16W	0 1		R6731		M. RESISTOR CH 1/10W 2.2K		
R6095		M. RESISTOR CH 1/16W	22K 1	†				+	
R6096								-	
R6097		M. RESISTOR CH 1/16W	1K 1		R6734		M. RESISTOR CH 1/10W 2.7K	+	
		M. RESISTOR CH 1/16W	47K 1		R6735		C. RESISTOR 1/4W 820	_	
R6098		M. RESISTOR CH 1/16W	0 1		R6736		M. RESISTOR CH 1/10W 150	1	
R6099		M. RESISTOR CH 1/16W	10K 1		R6737	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R6100	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K 1		R6737	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1	
R6101	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K 1		R6738		M. RESISTOR CH 1/10W 10K	_	
R6102, 03	ERJ3GEYG332	M. RESISTOR CH 1/16W	3.3K 2		R7901		M. RESISTOR CH 1/10W 12K	+	· · · · · · · · · · · · · · · · · · ·
R6105		M. RESISTOR CH 1/16W	0 1		R7904		M. RESISTOR CH 1/10W 10K	+-	
R6106		M. RESISTOR CH 1/16W	15K 1		R7906		M. RESISTOR CH 1/10W 10K		
	1				,,,,,,			+-'	
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Ref. No.	Part No.	Part Name & Descri	ption	cs Remarks	Ref. No.	Part No.	Part Name & Descripti	or D	Pomantia
R7912		M. RESISTOR CH 1/10W	2. 7K	1 Acidal AS					
		· · · · · · · · · · · · · · · · · · ·	-		R30082, 83			0	2
R7916	· 	M. RESISTOR CH 1/10W	820	11	R30084	ERJ3GEYJ101	M. RESISTOR CH 1/16W 10	0	1
R7923, 24	ERJ8GEYG152	M. RESISTOR CH 1/10W	1. 5K	2	R30086	ERJ6GEYG102	M. RESISTOR CH 1/10W	ĸ	1
R7935	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1				-	
R7937	ERDS2TJ151	C. RESISTOR 1/4W	150	1	T20001	VI 0000E	0011		
R7938				· · · · · · · · · · · · · · · · · · ·	T30001	VLQ0825	COIL	\perp	1
		M. RESISTOR CH 1/10W	1 OK	1					
R7939	ERDS2TJ151	C. RESISTOR 1/4W	150	1	TP3021	VJR0098	TEST POINT	- [1
R7955-57	ERJ6GEYG332	M. RESISTOR CH 1/10W	3. 3K	3	TP3801, 02	VJR0098	TEST POINT		2
R7958	ERJ6GEYG223	M. RESISTOR CH 1/10W	22K	1	TP8021	VJR0098	TEST POINT	-	1
R30001	ERJBGEYG102	M. RESISTOR CH 1/10W	1K	1	TP30005, 06		TEST POINT	-	
		M. RESISTOR CH 1/16W	47	3	11 30003, 00	VURUUSO	IEST FOINT		2
R30005		M. RESISTOR CH 1/10W	100	1	VC3802	ECRJA020E11	TRIMMER 20	P	1
R30006		M. RESISTOR CH 1/10W	1K	1					
R30007, 0	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	2	VR30001, 02	EVMEGSA00B14	V. RESISTOR 10	ĸ	2
R30009	ERJ6GEYG562	M. RESISTOR CH 1/10W	5. 6K	1	VR30004	EVMEGSA00B14		-	1
R30010. 1	1 ERJ3GEYJ273	M. RESISTOR CH 1/16W	27K	2			T. M.ZOTOTON TO	-	<u>'</u>
R30012		M. RESISTOR CH 1/10W	100	1	Vacat			+	
R30013					X2001	VSX0847	CRYSTAL OSCILLATOR		1
· · · · · · · · · · · · · · · · · · ·		M. RESISTOR CH 1/16W	100	1	X2002	VSX0872	CRYSTAL OSCILLATOR		1
R30014	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	X3003	VSX0846	CRYSTAL OSCILLATOR	Т	1
R30015	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	X3004	VSX0932	CRYSTAL OSCILLATOR	\top	
R30016	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1	X3151	VSX0848	CRYSTAL OSCILLATOR	+	
R30017		M. RESISTOR CH 1/10W		1	X3152	VSX1010		→	<u> </u>
R30018		M. RESISTOR CH 1/10W		1		 	CRYSTAL OSCILLATOR		1
					X3501	VSX0365	CRYSTAL OSCILLATOR		1
R30019		M. RESISTOR CH 1/16W		1	X3701	VSX0846	CRYSTAL OSCILLATOR	╝	1
R30020		M. RESISTOR CH 1/10W	47K	1	X3801	VSX0365	CRYSTAL OSCILLATOR	T	1
R30021, 2	2 ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	2	X4701	VSX0934	CRYSTAL OSCILLATOR	+	
R30023, 2	4 ERJ6GEYJ471	M. RESISTOR CH 1/10W	470	2	X6001	VSX0847	CRYSTAL OSCILLATOR	+	
R30025		M. RESISTOR CH 1/16W	-	1				-	
		M. RESISTOR CH 1/10W			X6201	EF0EC7374A4	CRYSTAL OSCILLATOR	1	
R30028, 2				2	X30001	VSX0365	CRYSTAL OSCILLATOR		
		M. RESISTOR CH 1/16W		1					
R30029		M. RESISTOR CH 1/10W	3. 3K	1	ZB2501	VJF0442	MINI CLAMPER		
R30030		M. RESISTOR CH 1/16W	2. 2K	1	ZB4001, 02	VMP4985	CARD CORNER HOLDER	٦.	2
R30031	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	ZB6701, 02	VMP4985	CARD CORNER HOLDER		2
R30032	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1				+-	
R30033		M. RESISTOR CH 1/16W	1. 2K	1			MISCELLANEOUS	+	
R30034		M. RESISTOR CH 1/16W		1			MI JOELEANEOUS	+	
R30035		M. RESISTOR CH 1/10W		<u> </u>					
R30038	ERJ6RBD392				ļ	VEE0099	CABLE		P1102-P670
		M. RESISTOR CH 1/10W	\rightarrow	1			FLAT CARD CABLE		P7502~P790
R30039		M. RESISTOR CH 1/10W		1		VWJ1196	FLAT CARD CABLE		P7501-P790
R30040		M. RESISTOR CH 1/10W	1 M	1		VWJ1197	FLAT CARD CABLE		PS4851-P64
R30041	ERJ6GEYG122	M. RESISTOR CH 1/10W	1. 2K	1		VWJ1198	FLAT CARD CABLE	7	P4801-P400
R30042	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1		VSC4689	SHIELD CASE (B)	1	· · · · · · · · · · · · · · · · · · ·
R30043	ERJ6GEYG223	M. RESISTOR CH 1/10W	22K	1		VSC4690	SHIELD CASE (T)	+	· · · · · · · · · · · · · · · · · · ·
R30044	ERJ8GEYJ471	M. RESISTOR CH 1/10W	470	1			SCREW	-	
R30048		M. RESISTOR CH 1/16W		1				4	·
R30047		M. RESISTOR CH 1/16W	-	1	<u> </u>	VMZ2787	HEAT SINK SHEET	1	
R30048		M. RESISTOR CH 1/16W			<u> </u>		HEAT SINK SHEET		
			10K	1		VJH1074	REAR JACK		
R3O049				1					
R3O050			1.8K	1	1				
R30051	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1				1	
R30052		M. RESISTOR CH 1/10W	180K	1				+	
R30053	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1				+-	
R30054			2. 7K	1	-	VEDOESELA	HEAD AND O. D. A	+	(07)
R30055	+	M. RESISTOR CH 1/10W		1		VEP05351A	HEAD AMP C.B.A.	+	(RTL)
R30056				<u> </u>	 			+	
				·				1	ļ
R30057		M. RESISTOR CH 1/10W		1			C. CAPACITOR CH 50V 0. 01] 4	· <u> </u>
R30058		M. RESISTOR CH 1/10W	47K	1	C5007	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01] 1	T
R3O059	ERJ6GEYG154	M. RESISTOR CH 1/10W	150K	1	C5010		C. CAPACITOR CH 50V 0. 01		
R30061	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	C5013		C. CAPACITOR CH 50V 1500	-	
R30062		M. RESISTOR CH 1/10W		1	C5014				
R30063		M. RESISTOR CH 1/10W		<u> </u>					
R30066		M. RESISTOR CH 1/10W			C5015		C. CAPACITOR CH 50V 0.01		
				1		FCUX1H330JCV	C. CAPACITOR CH 50V 33	1	
R30067		M. RESISTOR CH 1/16W		1	C5017	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01) 1	
R30068	·	M. RESISTOR CH 1/16W	560K	1	C5018	ECUX1H220JCV	C. CAPACITOR CH 50V 22	, 1	
R30069	ERJ6GEYG683	M. RESISTOR CH 1/10W	68K	1			C. CAPACITOR CH 50V 0.01	-	
R30070	ERJ3GEYJ243	M. RESISTOR CH 1/16W	24K	1			T. CAPACITOR CH 10V 10		
R30071		M. RESISTOR CH 1/10W		1				+	
R30072		M. RESISTOR CH 1/10W		il — I					
R30073				1			C. CAPACITOR CH 50V 0, 01		
		M. RESISTOR CH 1/10W					T. CAPACITOR CH6. 3V 10	+	
				3			C. CAPACITOR CH 50V 1500	1_1	
R30077		M. RESISTOR CH 1/10W		1	C5027	ECUX1H330JCV	C. CAPACITOR CH 50V 33	1	
R30078		M. RESISTOR CH 1/16W		1	C5028	ECUX1H122KBV	C. CAPACITOR CH 50V 1200	י די	
R30079		M. RESISTOR CH 1/10W	750	1	C5029	ECUX1A105ZFV	C. CAPACITOR CH 10V 1	1 1	
R30080	ERJ6GEYG104	M. RESISTOR CH 1/10W	100K	1			C. CAPACITOR CH 50V 1000	+	
R30081	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	C5031		C. CAPACITOR CH 50V 0. 01		
	1				<u> </u>			+	
	l .								
							·	+-	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Desc	ription	Pc	s Remarks
C5032	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C2735, 36		C. CAPACITOR CH 16V		_	
C5033	ECUX1H681JCV	C. CAPACITOR CH 50V 680P	1				C. CAPACITOR CH 16V		-	+
—		C. CAPACITOR CH 50V 0.01U	1		C2740				-	· · · · · · · · · · · · · · · · · · ·
							C. CAPACITOR CH 16V		+	
		T. CAPACITOR CH 10V 10U	1		-		C. CAPACITOR CH 50V		3	
C5036, 37	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	2		C2745	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 010	1	
C5038	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	1		C2747	ECUX1C474ZFN	C. CAPACITOR CH 16V	0. 47U	1	
C5047	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	1		C2748	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
C5051	FCUX1H1037FV	C. CAPACITOR CH 50V 0, 01U	1		C2749		C. CAPACITOR CH 50V		1	
-		0.0.0.0	÷						Η.	
FDF004	1/ 10004 00000	COMMISSION (SSMILE)			C2751		C. CAPACITOR CH 16V		1	
		CONNECTOR (FEMALE)	1		C2752	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
FP5002	VJS3251	CONNECTOR (FEMALE)	1		C2753	EEVHB1C100	E. CAPACITOR 16V	100	1	Į.
1		· I			C2754	ECUX1H471JCV	C. CAPACITOR CH 50V	470P	1	
I C5001	AN3731FHQ	1C	1		C2755	EEVHB1C100	E. CAPACITOR 16V	100	1	
			<u> </u>		C2757				+	
1,5000,00	14. 004 001/000	2011	_				C. CAPACITOR CH 16V		1	
		COIL 22UH	2				C. CAPACITOR CH 50V	0. 010	2	
L5005-07	ELJPA100KF	COIL 10UH	3		C2760	EEVHB1C100	E. CAPACITOR 16V	100	1	
					C2762	ECUX1H103ZFV	C. CAPACITOR CH 50V	0.010	1	
Q5002, 03	2SC3937	TRANSISTOR	2		C2763	ECUX1C105ZFN	C. CAPACITOR CH 16V	10	1	
Q5005, O6		TRANSISTOR	2		C2764		C. CAPACITOR CH6. 3V		1	
40000	200,000,	THOUSE TO TO TO							-	
DECOC	ED INCENCES	N DECICION OF A COM	ابر		C2766		C. CAPACITOR CH 25V		1	
		M. RESISTOR CH 1/16W 470	1		C2767		C. CAPACITOR CH 16V		1	<u> </u>
R5003		M. RESISTOR CH 1/16W 10K	1		C2768	EEVHB1E4R7	E. CAPACITOR 25V	4. 70	1	
R5004	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		C2769-71	ECUX1C104ZFV	C. CAPACITOR CH 16V	0. 1U	3	
R5005	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1				C. CAPACITOR CH 16V		+-	
R5010		M. RESISTOR CH 1/16W 68	1				C. CAPACITOR CH 50V		3	+
R5012			1						-	
			-				C. CAPACITOR CH 50V		Η.	
R5013		M. RESISTOR CH 1/16W 12K	1		C2783		E. CAPACITOR 16V		1	
R5014, 15	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2		C2784-87	ECUX1H103KBV	C. CAPACITOR CH 50V	0. 01U	4	,
R5016, 17	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		C2788	EEVHB1C470	E. CAPACITOR 16V	47U	1	
R5018	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1		C2789.90	ECUX1H582KBV	C. CAPACITOR CH 50V	5600P	2	,
R5019		M. RESISTOR CH 1/16W 12K	1		C2791		E. CAPACITOR 16V		1	
		M. RESISTOR CH 1/16W 1.5K	1		C2792				<u>'</u>	
							E. CAPACITOR 16V		-	
R5021		M. RESISTOR CH 1/16W 10	1		C2793		C. CAPACITOR CH 50V		1	
R5024	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C2794	ECUX0J225KBN	C. CAPACITOR CH6. 3V	2. 2U	1	1
R5025	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1		C2795	ECUX1H332KBV	C. CAPACITOR CH 50V	3300P	1	
R5026	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		C2796	ECUX1H562KBV	C. CAPACITOR CH 50V	5600P	1	
R5028		M. RESISTOR CH 1/16W 1.5K	1		C2797		C. CAPACITOR CH 16V		1	
		M. RESISTOR CH 1/16W 0	4						-	
					C2798		C. CAPACITOR CH 50V		1	
R5040, 41	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2				C. CAPACITOR CH 16V	0. 10	2	
					C2801, 02	EEVHP1HR47	E. CAPACITOR 50V	470	2	:
		MISCELLANEOUS			C2803	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
					C2807, 08	EEVHB1C100	E. CAPACITOR 16V	100	2	
	VSC4698	SHIELD CASE (A)	1		C2809		E. CAPACITOR 6. 3V		1	
			-	***	C2810		C. CAPACITOR CH 16V		<u>'</u>	
			\vdash						 -	
 			┝			-	E. CAPACITOR 6.3V		1	
							C. CAPACITOR CH 16V		+	,
					C6307	EEVHB1C470	E. CAPACITOR 16V	470	1	<u> </u>
L					C6308-13	ECUX1C104ZFV	C. CAPACITOR CH 16V	0. 1U	6	i l
]	VEP02557A	MECHANISM DRIVE C. B. A.	1	(RTL)	C6314-16	ECUX1C104KBV	C. CAPACITOR CH 16V	0. 1U	3	
			_			EEVHB1C470			+	
									-	
02701 00	EURINA DA SEL	C CARACITOR OU FOU O COM	-				C. CAPACITOR CH 16V		-	1
		C. CAPACITOR CH 50V 0.01U	2		C6328		E. CAPACITOR 16V		+	<u> </u>
C2703		C. CAPACITOR CH 16V 0.1U	1		C6501	ECUX1C104ZFV	C. CAPACITOR CH 16V	0. 1U	1	
C2704	EEVHB1H2R2	E. CAPACITOR 50V 2. 2U	1		C6502	ECUX1H102KBV	C. CAPACITOR CH 50V	1000P	1	
C2705	ECUX 1 C473KBV	C. CAPACITOR CH 16V 0. 047U	1		C6504	EEVHB1C470			1	
C2706		C. CAPACITOR CH 16V 0. 47U	-		C6505		C. CAPACITOR CH 16V		Ė	
C2707		C. CAPACITOR CH 10V 0.1U	-		C6506					
C2708			_				C. CAPACITOR CH 16V		-	·
			_		C6507		C. CAPACITOR CH 50V		_1	
C2709		E. CAPACITOR 16V 10U	-		C6509		E. CAPACITOR 16V		-	1
C2710, 11	EEVHB1H2R2	E. CAPACITOR 50V 2. 2U	2		C6510	ECUX1C224ZFV	C. CAPACITOR CH 16V	0. 220	1	
C2712. 13	ECUX1C473KBV	C. CAPACITOR CH 16V 0. 047U	2				E. CAPACITOR CH 50V			
02714, 15	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	2		C6513		E. CAPACITOR 16V			
		C. CAPACITOR CH 16V 0. 033U								
C2719			1				C. CAPACITOR CH 16V			
							C. CAPACITOR CH 50V			<u> </u>
		C. CAPACITOR CH 50V 4700P	-		C6519		C. CAPACITOR CH 16V		1	
C2723		E. CAPACITOR 10V 33U			C6520	EEVHB1H3R3	E. CAPACITOR CH 50V	3, 30	1	
C2724	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1		C6522	EEVHB1C100	E. CAPACITOR 16V	100	1	
C2725	EEVHB1H2R2	E. CAPACITOR 50V 2.2U	1		C6523-26		C. CAPACITOR CH 16V		4	
C2726		C. CAPACITOR CH 16V 0. 047U					C. CAPACITOR CH 10V		 	†
C2727		C. CAPACITOR CH 16V 0. 47U							+	
C2728			_				C. CAPACITOR CH 50V		1	
		C. CAPACITOR CH 10V 0.1U	1				C. CAPACITOR CH 16V		1	
C2729		C. CAPACITOR CH 50V 0, 01U	1		C6531	ECUX1H102KBV	C. CAPACITOR CH 50V	1000P	1	
C2730	EEVHB1C100	E. CAPACITOR 16V 10U	1		C6532	ECUX1A105KBN	C. CAPACITOR CH 10V	10	1	
02731, 32	EEVHB1H2R2	E. CAPACITOR 50V 2. 2U	2		C6534		C. CAPACITOR CH 10V			· · · · · · · · · · · · · · · · · · ·
		C. CAPACITOR CH 16V 0. 047U			C6536		C. CAPACITOR CH 50V		1	+
			Ť					10001	 '	
										
L		L				L				<u></u>

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Ref. No.	Part No.	Part Name & Description	Pcs Remarks	Ref. No.	Part No.	Part Name & Description	Pc:	s Remarks
C6537	ECUX1C104ZFV	C. CAPACITOR CH 16V 0.1U	1	P6514	VJP3172D004	CONNECTOR (MALE)	1	
C6538	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	P6520	VJP3172D003	CONNECTOR (MALE)	1	
C6539		C. CAPACITOR CH 10V 1U	1				╁	
C6541		C. CAPACITOR CH 16V 0.1U	1	Q2701	2SD1328	TRANSISTOR	1	
		E. CAPACITOR CH 50V 3, 3U	2		MSD601-R	TRANSISTOR	2	
		C. CAPACITOR CH 16V 0.1U	4	Q6301		TRANSISTOR	-	
		C. CAPACITOR CH 16V 0.1U	4		MSD601-R	 	1	
				Q6302	2SB1073	TRANSISTOR	1	
		E. CAPACITOR 16V 47U	2	Q6303	MSD601-R	TRANSISTOR	1	
C6558		C. CAPACITOR CH 16V 0.1U	1	Q6304	2SB1073	TRANSISTOR	1	
C6559		E. CAPACITOR 16V 10U	1	Q6305	MSD601-R	TRANSISTOR	1	
C6565, 66	EEVHB0J220	E. CAPACITOR 6. 3V 22U	2	Q6306	2SB1073	TRANSISTOR	1	
				Q6307	2SB1073-R	TRANSISTOR	1	
D2713-16	MA856	DIODE	4	Q6308	MSD601~R	TRANS!STOR	1	
02717	MA8056-M	DIODE	1	Q6502	2SB709A	TRANSISTOR	1	
D6301	MA4051-L	DIODE	1	Q6503	2SB1073	TRANSISTOR	1	
D6302-09	AK04	DIODE	8	Q6504	2SB710	TRANSISTOR	1	
D6310	MA142WK	DIODE	1	Q6505	2SB1073	TRANSISTOR	1	
D6311	MA4043-L	DIODE	1		200.070	11041070707	 '	
D6312-15		DIODE	4	QR6301-03	VN1112	TRANSISTOR-DECISION	-	
D6316	·	DIODE	1			TRANSISTOR-RESISTOR	3	
D6317		DIODE	1	QR6304, 03		TRANSISTOR-RESISTOR	2	
				QR6306-08		TRANSISTOR-RESISTOR	4	
D6318-34		DIODE	17	QR6314-16		TRANSISTOR-RESISTOR	3	
D6501	AK04	DIODE	1	QR6317	UN221D	TRANSISTOR	1	
		DIODE	2	QR6318	XN4213	TRANSISTOR-RESISTOR	1	
D6511	MA721WK	DIODE	1	QR6502	MUN2213	TRANSISTOR-RESISTOR	1	
				QR6503	MUN2212	TRANSISTOR-RESISTOR	1	
IC2701	NJM2903M	IC	1	QR6504	UN2211	TRANSISTOR-RESISTOR	1	
IC2702	UPC4558G2	IC	1	QR6508	XN1212	TRANSISTOR-RESISTOR	1	
IC2703, 04	AN3834K	IC	2	QR6511	MUN2113	TRANSISTOR-RESISTOR	1	
I C2 705	UPC4558G2	IC	1	QR6514	MUN2113	TRANSISTOR-RESISTOR	1	
I C2 706	NJM2903M	IC	1	QR6515	MUN2213	TRANSISTOR-RESISTOR	1	
IC2707	NJM2904M	IC	1	QR6517	MUN2213	TRANSISTOR-RESISTOR	1	
IC2708	TB6519F	IC	1	4.0017	IIIONEZ 10	TOURS TO TOUR NEWS TO TOUR	├-	
IC2709	PU3210	TRANSISTOR	1	R2701	ERJ3RBD273	H PECICION OH OW ON	-	
IC2710	PU3110	TRANSISTOR	1			M. RESISTOR CH 3W 27K	1	
102711	PU3210		1			M. RESISTOR CH 1/16W 5.6K	2	
		TRANSISTOR		R2705		M. RESISTOR CH 1/16W 1.5K	1	
	PU3110	TRANSISTOR	1	R2706		M. RESISTOR CH 1/16W 5.6K	1	<u> </u>
	NJM2903M	IC	1	R2707		M. RESISTOR CH 1/16W 330	1	
	NJM2904M	IC	1	R2710	ERJ3RBD473	M. RESISTOR CH 3W 47K	1	
	BA6219BFP-Y	IC	3	R2711	ERJ3RBD823	M. RESISTOR CH 3W 82K	1	
	UPD4538BG	IC	1	R2712	ERJ3RBD153	M. RESISTOR CH 3W 15K	1	
106305	NJM2903M	10	1	R2713	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
I C6306	UPD4538BG	IC	1	R2714, 15	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	2	
I C6501, 02	BA6887-V3	IC	2	R2716	ERJ14YJ330	M. RESISTOR CH 1/4W 33	1	· · · · · · · · · · · · · · · · · · ·
I C6503	NJM2904M	IC	1	R2717	ERJ14YK2R2	M. RESISTOR CH 1/4W 2.2	1	
106504, 05	UPC4558G2	IC	2	R2718		M. RESISTOR CH 1/16W 4.7K		
1C6506-08	NJM2903M	IC	3	R2719		M. RESISTOR CH 1/16W 39K	+	
IC6509, 10	NJM2904M	IC	2			M. RESISTOR CH 1/4W 33	3	
	UPC4558G2	IC	1	R2723				· · · · · · · · · · · · · · · · · · ·
	M66010GP	ic	1			M. RESISTOR CH 1/4W 2.2	1	
	UPC4558G2					M. RESISTOR CH 1/16W 4.7K	_	+·
		DUOTO INTERDURTER	1	R2725		M. RESISTOR CH 1/16W 39K	1	
IC6514	ON1114. VT	PHOTO INTERRUPTER	1			M. RESISTOR CH 1/4W 33	-	
V6						M. RESISTOR CH 1/16W 10K	2	
K2701, 02	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	R2730		M. RESISTOR CH 1/16W 1K	1	
1070	lu			R2731		M. RESISTOR CH 1/16W 180K	1	
L2701, 02	VLQ0599J680	COIL 68UH	2	R2732	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
				R2733	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
LB2702	VLP0145	CHIP INDUCTOR	1	R2734	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	
				R2735		M. RESISTOR CH 1/16W 15K	1	
P2701, 02	VJS3813B017	CONNECTOR (FEMALE)	2	R2736		M. RESISTOR CH 1/16W 1.2K	1	
P2703	VJS3319B009	CONNECTOR (FEMALE)	1	R2737		M. RESISTOR CH 1/16W 27K	1	
P2704	VJS3406B019	CONNECTOR (FEMALE)	1	R2738		M. RESISTOR CH 1/16W 1M	1	
P2705	VJP1929T	CONNECTOR (MALE)	1	R2739		M. RESISTOR CH 1/16W 1K	1	
	VJP3518B002	CONNECTOR (MALE)	2	R2740		M. RESISTOR CH 1/16W 3.9K	1	
P6303		CONNECTOR (MALE)	11	R2741			-	
P6501	· · · · · · · · · · · · · · · · · · ·	CONNECTOR (MALE)	1				1	
P6502		CONNECTOR (MALE)	1	R2742		M. RESISTOR CH 1/16W 3.9K	1	
P6503				R2743		M. RESISTOR CH 1/16W 0	1	
		CONNECTOR (MALE)	1	R2744		M. RESISTOR CH 1/16W 2.2K	1	
P6504		CONNECTOR (FEMALE)	1	R2745		M. RESISTOR CH 1/16W 1K	1	
P6505		CONNECTOR (FEMALE)	1	R2747		M. RESISTOR CH 1/16W 1K	1	
P6506	 	CONNECTOR (MALE)	1	R2748	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
P6507	VJP3172D002	CONNECTOR (MALE)	1	R2749		M. RESISTOR CH 1/16W 5.6K	1	
P6508	VJP3172D004	CONNECTOR (MALE)	1	R2750		M. RESISTOR CH 1/16W 560	1	
P6509	VJS2959B008	CONNECTOR (FEMALE)	1	R2751		M. RESISTOR CH 1/8W 0.33	1	
P6510	VJP3172D002	CONNECTOR (MALE)	1	R2752		M. RESISTOR CH 1/8W 0.47	1	
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R6335 ERJ3GEYJ223 M. RESISTOR CH 1/16W 22K 1 R6578-80 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 3 R6336 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1 R6581-86 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.7K 6 R6337 ERJ3GEYJ223 M. RESISTOR CH 1/16W 2.2K 1 R6581-86 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 3 R6338 ERJ3GEYJ223 M. RESISTOR CH 1/16W 2.2K 1 R6590 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 3 R6339 ERJ3GEYJ151 M. RESISTOR CH 1/16W 4.7K 1 R6590 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6340 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6591 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6341 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.7K 1 R6593 ERJ3GEYJ103 M. RESISTOR CH 1/16W 2.2K 2 R6342 ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6593 ERJ3GEYG472 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYG472 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYG472 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W				_	·				\rightarrow	1	
R6336 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 2K 1 R6581-86 ERJ3GEYJ272 M. RESISTOR CH 1/16W 2. 7K 6 R6587-89 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 7K 6 R6587-89 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 7K 6 R6587-89 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 7K 6 R6587-89 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2. 7K 7 7 7 7 7 7 7 7 7				-						2	
R6337				-					2K	3	
R6338				-				M. RESISTOR CH 1/16W 2	7K	6	
R6340									2K	3	
R6340						R6590	ERJ3GEYJ103	M. RESISTOR CH 1/16W	ок	_1	
R6341 ERJ3GEYJ272 M. RESISTOR CH 1/16W 2. 7K 1 R6593.94 ERJ8GEYG222 M. RESISTOR CH 1/16W 2. 7K 1 R6593.94 ERJ8GEYG222 M. RESISTOR CH 1/16W 2. 2K 2 R6392 ERJ3GEYG472 M. RESISTOR CH 1/16W 4. 7K 1 R6593 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1									2K	1	
R6342 ERJ3GEYG472 M. RESISTOR CH 1/16W 4. 7K 1 R6595 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1				_						1	
ROOTE ENGAGE OF STATE OF THE PARTY OF THE PA			·	$\overline{}$					2K	2	
R8343 ERJ3GEYJ151 M. RESISTOR CH 1/16W 150 1				_						1	
	R6343	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1		R6596	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1	2K	1	
				Ш					T		
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	 Part Name & Description	Pc.	s Remarks
R6597	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		D7519, 20		DIODE	2	Tomat No
R6598	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1		D7521, 22		DIODE	2	,†
R6599	 	M. RESISTOR CH 1/16W 100	1				DIODE	2	
R6600		M. RESISTOR CH 1/16W 1K	1		D7532		DIODE	1	
R6602		M. RESISTOR CH 1/4W 3.3	1		D7534	MA4056-H		-	
	ERJ14YK5R6		2	· · · · · · · · · · · · · · · · · · ·	07334	MA4U30~H	DIODE	1	
R6605, 04					2222			<u> </u>	
		M. RESISTOR CH 1/16W 3.9K	<u> </u>		DP7501	VSL0518	FIP	1	
R6607		M. RESISTOR CH 1/16W 10K	1					<u> </u>	
	· · · · · · · · · · · · · · · · · · ·	M. RESISTOR CH 1/16W 10K	3		107501	MN1874823	1C	1	
R6614		M. RESISTOR CH 1/16W 0	1		107502	M66010GP	IC	1	
R6615-17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		107503	PST7043	IC	1	
R6618	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		IC7504	BA6138	IC	1	
			L		1C7505	RN5RZ40BA	IC	1	
S6501	VSP1054	SWITCH	1						
S6502	VSP1055	SWITCH	1		K7503	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	
\$6503	VSP1054	SWITCH	1						
S6504	VSS0512	SWITCH	1		L7501	VLQ0599J101	COIL 100UH	1	
					L7502		COIL 22UH	-	·
TP2701-04	V.IROOB8	TEST POINT	4		27002	*1.403030220	22011	H	
TP6501-05		TEST POINT	5		07501	V 10050700170	CONDUCTION (FEMALE)	٠	
17 0301-00	VURUU90	TEST FOINT	3	 	P7501		CONNECTOR (FEMALE)	1	
VD0701 00	EVALUE OF CODIC	V DECLETOD	_	——————————————————————————————————————	P7502		CONNECTOR (FEMALE)	1	
	EVMECSA00B12		2		P7503	VJP1231T	CONNECTOR (MALE) 4P	1	
VR6501	EVMEGSA00B24	· · · · · · · · · · · · · · · · · · ·	1		P7503	VJS1231T	CONNECTOR (FEMALE)	1	
VR6502	EVMEGSA00B54	V. RESISTOR 50K	1		P7504	VJ\$2183	CONNECTOR (FEMALE)	1	
<u> </u>					P7601	VJS1231T	CONNECTOR (FEMALE)	_1	
		MISCELLANEOUS						\Box	
					Q7501	2SD973B-R	TRANSISTOR	1	
	VWJ26HW080MM	FLAT CARD CABLE	1	1					1
		FLAT CARD CABLE	1		QR7501-12	MUN2112	TRANSISTOR-RESISTOR	12	
					QR7515, 16		TRANSISTOR-RESISTOR	2	
			_		QR7518-21		TRANSISTOR-RESISTOR	4	
	 		-		4117070 21	MONETTE	TIGHTOTOK KESTSTOK	-	
			_		P7501-05	ED IECEVO104	M. RESISTOR CH 1/10W 100K	_	
								5	
	VEP07A05A	TIMER C. B. A.		(RTL)			M. RESISTOR CH 1/10W 220	1	
	VEFUTAUJA	TIMER C. B. A.	_ '	(RIL)			M. RESISTOR CH 1/10W 100K	1	
							M. RESISTOR CH 1/10W 100	2	
							M. RESISTOR CH 1/10W 3.3K	1	
B7501	CR2354-1 GUF	BATTERY	_1			ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1	
					R7512	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
	 	C. CAPACITOR CH 50V 0.01U	2		R7513	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1	
C7503	ECEA1CKA101	E. CAPACITOR 16V 100U	1		R7514-19	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	6	
C7504	ECQB1H223JF	P. CAPACITOR 50V 0. 022U	1		R7521	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
C7505	ECEAOJKA221	E. CAPACITOR 6. 3V 220U	1		R7522	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
C7506	ECEA1VKA100	E. CAPACITOR 35V 10U	1				M. RESISTOR CH 1/10W 1, 2K	1	
C7507	ECA1CKF560	E. CAPACITOR 16V 56U	1				M. RESISTOR CH 1/10W 15K	1	
C7508	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1				M. RESISTOR CH 1/10W 3.3K	1	
C7509		C. CAPACITOR CH 25V 0. 047U	1				M. RESISTOR CH 1/10W 10K	3	
C7510		C. CAPACITOR CH 50V 1000P	1	· · · · · · · · · · · · · · · · · · ·					
		C. CAPACITOR CH 50V 0.1U	2				M. RESISTOR CH 1/10W 680	1	
		C. CAPACITOR CH 50V 0.01U					M. RESISTOR CH 1/10W 10K	1	
							M. RESISTOR CH 1/10W 3.3K	_	
C7519		C. CAPACITOR CH 50V 0.1U		 			M. RESISTOR CH 1/10W 10K	-	
C7520		C. CAPACITOR CH 50V 27P	1				M. RESISTOR CH 1/10W 27K	1	
07521		C. CAPACITOR CH 50V 10P	1				M. RESISTOR CH 1/10W 68K	1	 -
C7522		C. CAPACITOR CH 50V 0.1U	1				M. RESISTOR CH 1/10W 330K	1	
C7523	ECEA1AM101T		1				M. RESISTOR CH 1/10W 220	1	
C7524	ECEA0JKS331		1		R7550	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	_1	
C7525, 26	ECEA1EKS4R7	E. CAPACITOR 25V 4. 7U	2		R7551	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
07527	ECEA1CKS100	E. CAPACITOR 16V 10U	1		R7552	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
C7528	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1				M. RESISTOR CH 1/10W 47K	1	
C7530	ECEA1CKA101	E. CAPACITOR 16V 100U	1				M. RESISTOR CH 1/10W 1.2K	2	
07531	ECEA1CKA100		1				M. RESISTOR CH 1/10W 47K	1	
07532		C. CAPACITOR CH 50V 0, 1U	1				M. RESISTOR CH 1/10W 10K	<u>'</u> -	
C7534		CHIP 20125 (NPO)	1					_	
		20-20 1111 0/		 				3	
D7501	MA4130H	DIODE	-				M. RESISTOR CH 1/10W 10K	4	
			1				M. RESISTOR CH 1/10W 220	8	
D7502, 03		DIODE	2				M. RESISTOR CH 1/10W 1.2K	1	
D7504	ERA22-02	DIODE	1				M. RESISTOR CH 1/10W 220	1	
D7505	MA4068	DIODE	1				M. RESISTOR CH 1/10W 33K	1	
<u> </u>	VSD0002	DIODE	1		R7596	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
D7507	LN28RCPPU	DIODE	1						
D7509	MA700	DIODE	1		S7501	VSP1053	SWITCH	1	
D7510, 11	RB441PT-77	DIODE	2					÷	
D7512	11ES1	DIODE	1		T7501	ETE13K95AY	TRANSFORMER	1	
		DIODE	4				OHITELY	-1	
		LED	2		VC7501	ECRLA010A53	V DESISTOD	_	
			-		10/001	E-OVERO LONGO	V. RESISTOR 5K	_1	
			-					_	
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	Part No. 2EVMF6SA00B14	Part Name & Description	Pcs	Remarks	Ref. No.		Part Name & Descriptio	Pc	s Remarks
	EVMF6SA00B14								
	EVMF6SA00B14					VEP04728A	FRONT (R) C. B. A.	1	(RTL)
		V. RESISTOR 10K	2					 	100
4555								╁	
X7501	VSX0666	CRYSTAL OSCILLATOR	1		C4801	ECHNILI DAZEN	C. CAPACITOR CH 50V 0. 1U	╁-,	
X7502	VSX0608	CRYSTAL OSCILLATOR	1		l			+	
X7302	V3X0000	ORISTAL OSCILLATOR	<u> </u>		C4802		E. CAPACITOR 6. 3V 47U	-	
			_		C4804		C. CAPACITOR CH 50V 0. 01U	1	
ZB7501-06		LED HOLDER	6		C4805	ECEA1CKS100	E. CAPACITOR 16V 10U	1	
ZB7507, 08	+	LED SPACER	2		C4807	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
ZB7509-14	VMD0504	LED HOLDER	6		C4808	ECQV1H473JL	P. CAPACITOR 50V 0. 047U	1	
ZB7515	VJF1318	FIP HOLDER	1		C4809, 10	ECEA1AKS220		2	,
		***					C. CAPACITOR CH 50V 0.1U	+	
		MISCELLANEOUS	┢					-	
	†	m. Octobrate	_					-	
	VEE 0007	040) 5	<u>-</u>	2201	C4817	ECUMIHIO4ZFN	C. CAPACITOR CH 50V 0.1U	1	
	VEE0C27	CABLE	1	P7601-P750				L	1
					D4801	MA165	DIODE	1	
					D4802	LN476YCPX	DIODE	1	
					D4803	MA4056-H	DIODE	1	
								 	
					IC4801	NJM4565MD	ic	1	
	VEP03E91A	FRONT (L) C. B. A.	1	(RTL)	· · · · · · · · · · · · · · · · · · ·	TO III TO CO III D		Η'	
-	1	W. W. F.	H		11/4004	V 1 1000 4	HEADDHONE 1404	-	
	t				JK4801	VJJ0264	HEADPHONE JACK	_1	
CARET	EOUNALIA CONT	O CARACITOR ON STATE	٠.		JK4802	VJJ0263	MIC JACK	1	1
C4851		C. CAPACITOR CH 50V 0. 01U						L	
C4852		C. CAPACITOR CH 50V 0.1U	1		P4801	VJS3537B018G	CONNECTOR (FEMALE)	1	
C4853	+	C. CAPACITOR CH 50V 0.01U	1		L				
C4854	ECEAOJKA470	E. CAPACITOR 6, 3V 47U	1		Q4801	2SD602A-R	TRANSISTOR	1	
C4855	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1			T		Ė	
					QR4801	MUN2113	TRANSISTOR-RESISTOR	1	
IR4851	RPM6937-V11	REMOTE CONTROL RECEIVER	1		4114001	11012110	TOURS TO LOW THE STOLL OF THE S	⊢-¦	
		THE THIRDS NEOLIYER			D400:	ED MOEWERS	U PERIOTES		
JK4851	VEJ1734	EDONT IACK	_		R4801		M. RESISTOR CH 1/10W 3.9K	1	
JN485 I	VEJ1 /34	FRONT JACK	1		R4802		M. RESISTOR CH 1/10W 2.2M	1	
					R4803	ERJ8GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
P\$4851	VJS3537B022G	CONNECTOR (FEMALE)	1		R4804	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
					R4805	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
Q4851	XN6401	TRANSISTOR	1		R4806		M. RESISTOR CH 1/10W 4.7K	1	
04852	MSD601-R	TRANSISTOR	1					├	
Q4853	XN6401	TRANSISTOR	1					2	
Q4854	MSD601-R	TRANSISTOR			R4809		M. RESISTOR CH 1/10W 150K	1	
44034	MSDOOTS	TRANSTSTUR	_1		R4810		M. RESISTOR CH 1/10W 150	1	
	ļ				R4811	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
QR4851	MUN2213	TRANSISTOR-RESISTOR	_1		R4812	ERJ6RBD162	M. RESISTOR CH 1/10W 1.6K	1	
					R4813	ERJ6RBD471	M. RESISTOR CH 1/10W 470	1	
R4851-53	ERJ6GEYG750	M. RESISTOR CH 1/10W 75	З		R4814		M. RESISTOR CH 1/10W 1.2K	1	
R4854	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R4815		M. RESISTOR CH 1/10W 100	1	
R4855	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1		R4816		M. RESISTOR CH 1/10W -1, 6K	1	
R4856		M. RESISTOR CH 1/10W 22K	1		R4817				+ · · · · · · · · · · · · · · · · · · ·
R4857		M. RESISTOR CH 1/10W 2.2K	-		R4818			1	
		M. RESISTOR OH 1/10W 47K	1				M. RESISTOR CH 1/10W 1.2K	1	
R4859	 				R4819		M. RESISTOR CH 1/10W 100	1	
	 		1		R4820		M. RESISTOR CH 1/10W 1.6K	_1	
R4860		M. RESISTOR CH 1/10W 100K	1		R4821	ERJ6RBD471	M. RESISTOR CH 1/10W 470	1	
		M. RESISTOR CH 1/10W 47K			R4822	ERJ6GEYG122	M. RESISTOR CH 1/10W 1.2K	1	
		M. RESISTOR CH 1/10W 39K	1		R4823	ERJ6RBD101	M. RESISTOR CH 1/10W 100	1	
R4864	ERDS2TJ330	C. RESISTOR 1/4W 33	1		R4824		M. RESISTOR CH 1/10W 220	1	
R4865	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1				M. RESISTOR CH 1/10W 3.3K	2	
		M. RESISTOR CH 1/10W 10K	2		R4827		M. RESISTOR CH 1/10W 5. 6K	_	
R4868		M. RESISTOR CH 1/10W 47K	1		R4828			1	
R4869		M. RESISTOR CH 1/10W 100K	1		K4528	ERJOSETF 123	M. RESISTOR CH 1/10W 12K	1	
R4870	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	_1		\$4801-06	EVQ11407K	SWITCH	6	
	<u> </u>				<u></u>				
		SWITCH	1		VR4801	EVJYMOF15C23	V. RESISTOR 2K	1	
S4852	ESD170306	SWITCH	1		VR4802	EWANYJX1054J		1	
S4853	VSR0221	SWITCH	1			EVJ021F1554J	11.0011	1	
		-	寸	· · · · · · · · · · · · · · · · · · ·			1. 33m	-	
W4801	VWJ0119	JUMPER	1	·	W1	VWJ0119	HIMDED	-	
	· · · · · · · · · ·				"	*#UU118	JUMPER	1	<u> </u>
ZB4851	VMD2247	INFRA HOLDER			75.55	146119C = -			
ZB4852	 		1			VGU7850	VOLUME KNOB	1	
		SLIDE KNOB	_1		ZB4802, 03		REC LEVEL KNOB	2	
ZB4853		MIC KNOB	_1		ZB4804	VGU7652	M1C KNOB	1	
ZB4854	VGF0740	VC SHEET	1		ZB4805	VMD2326	REFLECTOR	1	
			7			VGF0208	REC VR SHEET	1	
							REC VOL PLATE		-
		·····	\dashv					_1	
					ZB4808	VGF0740	VC SHEET	1	
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D-6 V	D N	D						
Ref. No.	Part No.	Part Name & Description	Pcs Remarks	Ref. No.		Part Name & Description		s Remarks
	VEP07966A	MODULAR C. B. A.	1 (RTL)	C1150	VCEA1EJH121		+	
	VEPU/900A	MODULAR C. D. A.	1 (RIL)	01151	ECKF1H471KB		1	
				C1152 C1153	VCEA1HJH560 VCK0106K222		⊬:	
JK7601	VJJ0587	4P MODULAR JACK	1	C1180	VCR0100R222		 	
	7000007	4) MODULAN OAGN			ECQB1H333JF		2	
P7601	VJP1231T	CONNECTOR (MALE) 4P	1	01230	VCEA1HJH560		1	1
				C1240	VCEA0JJH272		1	
		MISCELLANEOUS		C1241	VCEA0JJH331		1	<u> </u>
				01250	VCEA1CJH152		1	
	VMX1021	SPACER	1	C1251	VCEA1CJH331		1	
				C1260	VCEA1AJH152		1	· · · · · · · · · · · · · · · · · · ·
				C1261	VCEA1AJH681	· · · · · · · · · · · · · · · · · · ·	1	1
				C1340	ECKF1H103ZF		1	
				C1341	VCEA1CJC470		1	
				C1350	ECKF1H103ZF		1	
	VEP07965A	FRONT LED C. B. A.	1 (RTL)	C1351	VCEA1AJC470		1	
				C1360		C. CAPACITOR 50V 0. 01U	1	
				C1361		E. CAPACITOR 10V 47U	1	
D7751	LN01301C	DIODE	1		f		H	
D7752, 53	LN01801C	LED	2	⚠ D1110	ERZVA5Z221	DIODE	1	
	LN01301C	DIODE	1	D1140	S1WBA80	DIODE	1	<u> </u>
				D1150	ERA22-02	DIODE	1	
P7751	VJP1244T	CONNECTOR (MALE) 4P	1	D1151	1SS254	DIODE	1	
P7752		CONNECTOR (FEMALE)	1	D1152	MA723	DIODE	1	1
				D1153	188254	DIODE	1	
				D1180	155254	DIODE	1	
<u> </u>				D1182	155254	DIODE	1	
——				D1200	MA4056-H	DIODE	<u> </u>	
				D1230	ERA22-02	DIODE	<u> </u>	
	VEP07968A	IR C. B. A.	1 (RTL)	D1240	FMB-24H	DIODE	1	-
<u>-</u>	721 07000X	TK 0. B. X.	T (KIE)	D1250	FML-G12SP	DIODE	1	
l			-	D1260	FMB-24H	DIODE	+	
C2701 02	ECKF1H103ZF	C. CAPACITOR 50V 0, 01U	2	D1340	ERA22-02		<u> </u>	
07701.02	EONF IHIOSZI	U. CAPACITOR SOV U. UTO	2	D1341	MA4130L	DIODE	1	
D7701.02	MA 40EC-U	DIODE	2	D1350	MA4056-H	DIODE	1	
07701.02	mA4UUU-N	DIODE	2			DIODE	1	
107701	VI DOLOG	0011	1	D1360	MA4056-L	DIODE	1	
LB7701	VLP0196	COIL		D1361	1SS254	DIODE	1	
57704	W. ID. 644	OANUE OTOD		A =			ļ_	
P7701	VJR1044	CONNECTOR	1	<u> </u>	XBA1C16NU100	FUSE	1	
P7751	VJS1231T	CONNECTOR (FEMALE)	1	A			_	
ļ				<u> </u>	STRS6705LF	10	1	
ļ				A 171040	121110000000	110	<u> </u>	
	-			<u> </u>	UNH000300A	IC	1	
				A 1 1 1 20 21	VI E1240NOD7	6011	L	
	VEP03E18A	5P JACK C. B. A.	1 (RTL)	L1240		COIL	2	
	VEFUSETOA	JF DACK C. B. A.	(RIL)	L1250	VLQ0655K220 VLQ0655K220	·	1	
					VLQ0655K220	COIL	1	
JK2701	VJJ0567	JACK	1 .	L1260	VLQ0655K220	COIL	1	
UN3 /61	V330367	JACK		181010 1	14 D0055	BEADS 2000	L	
D2701	V 101044T	COMPLETED (MALE) 40		LB1210-14	VLP0056	BEADS CORE	5	
P3781	VJP1244T	CONNECTOR (MALE) 4P	1	A 71101			_	
	ļ 			⚠ P1101	VJS2985	CONNECTOR (FEMALE)	1	
				P1290	VJP1393T	CONNECTOR (MALE) 13P	1	
	-				000455: -	TD.WG.GTG-	\vdash	ļ
	ļ				2SD1991-R	TRANSISTOR	2	
	VED07007:	DV 140V 0 5 :	((DTL)	01182	2SB1320A-R	TRANSISTOR	1	
	VEP07967A	DV JACK C. B. A.	1 (RTL)	<u> </u>	PS2561L1-1	PHOTO CUPPLER	1	
	 			Q1201	2SD1991-R	TRANSISTOR	1	
		DV 1404		Q1340	2SD1273P	TRANSISTOR	1	
JK7651	VJJ0568	DV JACK	1	Q1350	2SD1996-R	TRANSISTOR	1	
				01360	2SD1996-R	TRANSISTOR	1	
P7651	VJP1246T	CONNECTOR (MALE) 6P	1		<u> </u>		Ļ	
ļ				R1150	ERDS2FJ224	C. RESISTOR 1/4W 220K	1	
<u> </u>	 			R1151		C. RESISTOR 1/4W 6.8K	1	
<u> </u>				R1152	ERDS2FJ153	C. RESISTOR 1/4W 15K	1	
	 			R1153	ERDS2FJ270	C. RESISTOR 1/4W 27	1	
<u> </u>	VCD01CCC:	DOWED O D A	A (971)	R1154	ERDS2FJ1R5	C. RESISTOR 1/4W 1.5	1	
	VEP01839A	POWER C. B. A.	1 (RTL)	R1155	ERX1SJR68	M. RESISTOR 1W 0.68	1	
 				R1156	ERDS2FJ561	C. RESISTOR 1/4W 560	1	
A 0112				R1157	ERDS2FJ331	C. RESISTOR 1/4W 330	1	
	ECQU2A333MN		2	R1158		C. RESISTOR 1/4W 220	1	
<u> </u>	VCK0286E222		1	R1159	ERDS2FJ331	C. RESISTOR 1/4W 330	1	
	VCK0286E102		2	R1160	ERDS2FJ2R7	C. RESISTOR 1/4W 2.7	1	
C1140	ECA2EGE101W	E. CAPACITOR 250V 100U	1	R1180, 81	ERDS2FJ471	C. RESISTOR 1/4W 470	2	
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Ref. No.		Part Name & Description	_		Ref. No.	Part No.	Part Name & Description	Pc	s Remarks
		C. RESISTOR 1/4W 47K	+						
	ERDS2FJ683				SW1	ESD10606	SLIDE SWITCH	_ !	
	EROS2CKG8201		+		II			L	
	EROS2CKG2702 ERDS2TJ153		1		VR1	EVQWM2001	ENCODER	1	
		C. RESISTOR 1/4W 15K C. RESISTOR 1/4W 5.6K	1			OCDODO I	OCCUL LATOR	\vdash	
· · · · · · · · · · · · · · · · · · ·		C. RESISTOR 1/4W 1.8K	1		X1	CSB990J	OSCILLATOR	1	
		C. RESISTOR 1/4W 270	 		 	 	MISCELLANEOUS	-	
		C. RESISTOR 1/2W 3.9K	1			ļ	#130ELLAREOUS	╁	
		C. RESISTOR 1/4W 820	1			UR57TD627	(-) BATTERY TERMINAL	1	
R1360		C. RESISTOR 1/4W 820	1			UR57TD626	(+) BATTERY TERMINAL	1	
					<u> </u>	SS6444FLS	MODULAR JACK	1	
⚠ T1150	VLT0936	TRANSFORMER	1			VJR1005	OUTSIDE TERMINAL (4PIN)	1	
						UR57JP639	JUMPER WIRE (4PIN)	1	
	VMP5896	INRET ANGLE	1			UR57JP637A	JUMPER WIRE (7PIN)	1	
	VHD0418	SCREW	1			UR57JP638A	JUMPER WIRE (12PIN)	1	
		FUSE CLIP	2						
ZA1105, 06		SCREW	2						
	XTV4+8F	SCREW	1						
	XWC4BFX	WASHER SAPELY	1		<u> </u>			L	
	VEE9289 VSC3941	POWER EARTH HEAT SINK	1		ļ	ļ		L_	
-AIIIU	1303841	ILA) SINN	1			ļ		<u> </u>	
∆ ZB1101	VQL7021	FUSE	1		l	ļ		-	
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	UR57VPB623	EDITING CONTROL C. B. A.	1	(RTL)					
			_						
<u></u>			_						
		E. CAPACITOR 6.3V 100U	_						
	EZJS2VB223Z		1					Ĺ	
		C. CAPACITOR CH 16V 0.1U	1		ļ			_	
		C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 100P	2		 			L	
		C. CAPACITOR CH 50V 100P C. CAPACITOR CH 16V 0. 1U	1		<u> </u>			<u> </u>	
		C. CAPACITOR CH 50V 220P	1		 			-	
		C. CAPACITOR CH 50V 1000P	2		 			-	
	EZJS2VB223Z		1		———			\vdash	
		C. CAPACITOR CH 16V 0.1U	1					\vdash	
								-	
		DIODE	2					_	
		DIODE	3					_	
D9	155294	DIODE	-						
104	NO 4P4 CHAIR	10	Ш						
	M34510M4194T		1						
102	RH5VL20AA	10	1						
LED1, D2	SE1003E	LED	2						
		LED	1						
			H			·			
Q1	2SB1188	TRANSISTOR	1					_	
		TRANSISTOR	1						
Q3	MSB709	TRANSISTOR	1						
Q4, Q5	MSD801-R	TRANSISTOR	2						
		M. RESISTOR CH 1/8W 1.8	2						
		M. RESISTOR CH 1/10W 470	2						
		M. RESISTOR CH 1/10W 47	_1						
		M. RESISTOR CH 1/10W 270	1		 				
		M. RESISTOR CH 1/10W 100K M. RESISTOR CH 1/10W 2, 2K	7					_]	
		M. RESISTOR CH 1/10W 2.2K	2					_	
		M. RESISTOR CH 1/10W 47	1					4	
		M. RESISTOR CH 1/10W 4.7K	2					-	
		M. RESISTOR CH 1/10W 100K	1					\dashv	
		M. RESISTOR CH 1/10W 4.7K	3					-	
		M. RESISTOR CH 1/10W 100K	1		<u> </u>				
		M. RESISTOR CH 1/10W 270	2					-	
		M. RESISTOR CH 1/10W 6.8K	4					\dashv	· · · · · · · · · · · · · · · · · · ·
		M. RESISTOR CH 1/10W 10K	1					+	
		M. RESISTOR CH 1/10W 4.7K	1					+	
R39	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1					_	
			4						
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SERVICING FIXTURES & TOOLS

Ref. No. I	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		MEASURING BOARD	1					_	
	K1410	CONNECTION BOARD	_1						
		30PIN FLAT CABLE	_1	NEEDS 2 CABLES					
	K1405	AUDIO EXTENDER BOARD	1					-	
VF	K1406	DIGITAL EXTENDER BOARD	1					_	
VF	K1407	Y/C EXTENDER BOARD	1						
VF	K1408	MOTOR EXTENDER BOARD	1						
٧J	JA0941	DC CABLE	1	FOR MEASURING BOARD					
VF	K1436	14PIN EXTENDER CABLE	1						
		12PIN EXTENDER CABLE	1						
		26PIN FLAT CABLE	1					_	
		32 FLAT CABLE	1	1				_	
		20PIN FLAT CABLE	1						
		EVR SOFTWARE	1	,				-	
		ALIGNMENT TAPE (COLOR BAR)	1		<u> </u>				
						- -			
		NEUTRAL PLATE	1				***		
		POST HEIGHT FIXTURE	1						
		BOX DRIVER	1						
$\overline{}$		POST DRIVER	_1						
		DIAL TENSION GAUGE	1						
		49% SENSOR CASSETTE	1						
	K1426	6% SENSOR CASSETTE	1						· · · · · · · · · · · · · · · · · · ·
VF	K1155	NEUTRAL POSITION TOOL	1	REV/WHITE			· · · · · · · · · · · · · · · · · · ·		
		NEUTRAL POSITION TOOL		PLAY/BLACK					
VF		NEUTRAL POSITION TOOL		NEUTRAL/BLACK W/HOLE		-		\vdash	
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